

Arthritis & Rheumatism

Official Journal of the American College of Rheumatology

VOLUME 42

JANUARY 1999

NO. 1

Special Articles

Review: Gene Therapy for Rheumatic Diseases

C. H. Evans, S. C. Ghivizzani, R. Kang, T. Muzzonigro, M. C. Wasko, J. H. Herndon, and P. D. Robbins 1

Clinical Science

Incidence and Risk Factors for Radiographic Knee Osteoarthritis in Middle-Aged Women:

The Chingford Study

Deborah J. Hart, David V. Doyle, and Tim D. Spector 17

Does Laxity Alter the Relationship Between Strength and Physical Function in Knee Osteoarthritis?

Leena Sharma, Karen W. Hayes, David T. Felson, Thomas S. Buchanan, Gretchen Kirwan-Mellis,

Congrong Lou, Yi-Chung Pai, and Dorothy D. Dunlop 25

Grip Strength and the Risk of Developing Radiographic Hand Osteoarthritis: Results From the

Framingham Study

Christine E. Chaisson, Yuqing Zhang, Leena Sharma, William Kannel, and David T. Felson 33

Changes in Serum Cartilage Marker Levels Indicate Altered Cartilage Metabolism in Families with the Osteoarthritis-Related Type II Collagen Gene COL2A1 Mutation

Jane F. Bleasel, A. Robin Poole, Dick Heinegård, Tore Saxne, Daniel Holderbaum, Mirella Ionescu,

Paul Jones, and Roland W. Moskowitz 39

Trends in the Incidence and Mortality of Systemic Lupus Erythematosus, 1950-1992

Kristine M. Uramoto, Clement J. Michet, Jr., Julian Thumboo, Jayasimha Sunku, W. Michael O'Fallon,

and Sherine E. Gabriel 46

Prevalence and Risk Factors of Carotid Plaque in Women with Systemic Lupus Erythematosus

Susan Manzi, Faith Selzer, Kim Sutton-Tyrrell, Shirley G. Fitzgerald, Joan E. Rairie, Russell P. Tracy, and

Lewis H. Kuller 51

Discrepancy Between Regional Cerebral Blood Flow and Glucose Metabolism of the Brain in Systemic Lupus Erythematosus Patients with Normal Brain Magnetic Resonance Imaging Findings

Chia-Hung Kao, Yung-Jen Ho, Jung-Liang Lan, Sheng-Ping Changlai, Ko-Kaung Liao, and

Poon-Ung Chiang 61

Prevalence of Autoantibodies to Ribosomal P Proteins in Juvenile-Onset Systemic Lupus Erythematosus Compared with the Adult Disease

Morris Reichlin, Tena Faulkner Broyles, Osvaldo Hubscher, Judith James, Thomas A. Lehman,

Rosa Palermo, Haraldine A. Stafford, Elizabeth Taylor-Albert, and Marianne Wolfson-Reichlin 69

Comparing Self-Reported Function and Work Disability in 100 Community Cases of Fibromyalgia Syndrome Versus Controls in London, Ontario: The London Fibromyalgia Epidemiology Study

Kevin P. White, Mark Speechley, Manfred Harth, and Truls Ostbye 76

Salmonella-Triggered Reactive Arthritis: Use of Polymerase Chain Reaction, Immunocytochemical Staining, and Gas Chromatography-Mass Spectrometry in the Detection of Bacterial Components from

Synovial Fluid

Simo Nikkari, Kaisu Rantakokko, Päivi Ekman, Timo Möttönen, Marjatta Leirisalo-Repo, Mika Virtala,

Leena Lehtonen, Jari Jalava, Pirkko Kotilainen, Kaisa Granfors, and Paavo Toivanen 84

Basic Science

Amelioration of Collagen-Induced Arthritis and Suppression of Interferon- γ , Interleukin-12, and Tumor Necrosis Factor α Production by Interferon- β Gene Therapy

Kostas A. Triantaphyllopoulos, Richard O. Williams, Hitakshi Tailor, and Yuti Chernajovsky 90

Biphasic Regulation of the Development of Murine Type II Collagen-Induced Arthritis by

Interleukin-12: Possible Involvement of Endogenous Interleukin-10 and Tumor Necrosis Factor α

Tsuyoshi Kasama, Jyunko Yamazaki, Ryosuke Hanaoka, Yusuke Miwa, Yoshimi Hatano,

Kazuo Kobayashi, Masao Negishi, Hirotsugu Ide, and Mitsuru Adachi 100

Modulation by Cytokines of Induction of Oral Tolerance to Type II Collagen

G. J. Thorbecke, R. Schwarcz, J. Leu, C. Huang, and W. J. Simmons 110

High-Resolution Three-Dimensional Magnetic Resonance Imaging for the Investigation of Knee Joint Damage During the Time Course of Antigen-Induced Arthritis in Rabbits

Janet Dawson, Sharon Gustard, and Nicolau Beckmann 119

Relationship of Matrix Metalloproteinases and their Inhibitors to Cartilage Proteoglycan and Collagen Turnover: Analyses of Synovial Fluid From Patients with Osteoarthritis <i>Naoki Ishiguro, Takayasu Ito, Hideo Ito, Hisashi Iwata, Hitenishi Jugessur, Mirela Ionescu, and A. Robin Poole</i>	129
Retinoic Acid-Induced Type II Collagen Degradation Does Not Correlate with Matrix Metalloproteinase Activity in Cartilage Explant Cultures <i>Jo S. Price, Sherry Wang-Weigand, Richard Bohne, L. Didem Kozaci, and Anthony P. Hollander</i>	137
Avocado/Soya Unsaponifiables Enhance the Expression of Transforming Growth Factor $\beta 1$ and $\beta 2$ in Cultured Articular Chondrocytes <i>K. Boumediene, N. Felisaz, P. Bogdanowicz, P. Galera, G. B. Guillou, and J.-P. Pujol</i>	148
Enhancement of Phosphorylation and Transcriptional Activity of the Glucocorticoid Receptor in Human Synovial Fibroblasts by Nimesulide, A Preferential Cyclooxygenase 2 Inhibitor <i>John A. Di Battista, Mengkun Zhang, Johanne Martel-Pelletier, Julio Fernandes, Nada Alaaeddine, and Jean-Pierre Pelletier</i>	157
β_2 -Glycoprotein I is Necessary to Inhibit Protein C Activity by Monoclonal Anticardiolipin Antibodies <i>Masahiro Ieko, Kenji Ichikawa, Douglas A. Triplett, Eiji Matsuura, Tatsuya Atsumi, Ken-Ichi Sawada, and Takao Koike</i>	167
Overlapping Peptide-Binding Specificities of HLA-B27 and B39: Evidence for a Role of Peptide Supermotif in the Pathogenesis of Spondylarthropathies <i>Yuji Sobao, Naoyuki Tsuchiya, Masafumi Takiguchi, and Katsushi Tokunaga</i>	175
Erratum Error in Spelling of Author's Name in Letter by Cid et al (Arthritis Rheum, November 1998).....	181
Case Report Localized Bowel Vasculitis: Postoperative Cyclophosphamide or Not? <i>K. Raza, A. R. Exley, D. M. Carruthers, C. Buckley, L. A. Hammond, and P. A. Bacon</i>	182
Concise Communications Induction Therapy with an Intravenous Loading Dose of Azathioprine for Treatment of Refractory, Active Rheumatoid Arthritis <i>Eric L. Matteson, Carlos H. Orces, Joseph Duffy, James J. Lipsky, M. Gennett Pike, and William J. Sandborn</i>	186
Lack of Occurrence of Severe Lupus Nephritis Among Anti-Clq Autoantibody-Negative Patients <i>Marten Trendelenburg, Jutta Marfurt, Iris Gerber, Alan Tyndall, and Jürg A. Schifferli</i>	187
Letters Does Early and Aggressive Treatment Improve the Prognosis in Psoriatic Arthritis? Comment on the Article by Wong et al <i>John Brockbank, Martin Leach, Mike Snaith, and Adewale Adebajo</i>	189
Reply <i>Dafna D. Gladman and Vernon T. Farewell</i>	189
Acute-Phase Response and Risk of Developing Ischemic Complications in Giant Cell Arteritis: Comment on the Article by Cid et al <i>T. Lehmann and M. Seitz</i>	190
Reply <i>Maria C. Cid, Carme Font, Alejandro de la Sierra, Blanca Coll-Vinent, Alfons López-Soto, Alvaro Urbano-Márquez, Josep M. Grau, Joaquim Oristrell, and Jaume Vilaseca</i>	190
Clinical, Immunologic, and Immunogenetic Evidence that Mixed Connective Tissue Disease is a Distinct Entity: Comment on the Article by Smolen and Steiner <i>G. C. Sharp and R. W. Hoffman</i>	190
Naming Names! Comment on the Article by Smolen and Steiner <i>David Isenberg and Carol Black</i>	191
Reply <i>Josef S. Smolen and Günter Steiner</i>	193
Iloprost Treatment in Systemic Sclerosis: Comment on the Concise Communication by Tedeschi et al <i>J. Braun, J. Sieper, G. Riemekasten, and F. Hiepe</i>	196
Reply <i>Alberto Tedeschi, Pier Luigi Meroni, Nicoletta Del Papa, Carla Boschetti, and Antonio Miadonna</i>	197
ACR Announcements	13A

Special Article

- Review: Fine Specificity of the Autoimmune Response to the Ro/SSA and La/SSB Ribonucleoproteins
R. Hal Scofield, A. Darise Farris, Angela C. Horsfall, and John B. Harley 199

Basic Science

- Overexpression of Human Homologs of the Bacterial DnaJ Chaperone in the Synovial Tissue of Patients with Rheumatoid Arthritis
Ursula Kurzik-Dumke, Christoph Schick, Rita Rzepka, and Inga Melchers 210
- Establishment and Characterization of Nurse Cell-Like Stromal Cell Lines from Synovial Tissues of Patients with Rheumatoid Arthritis
Eiji Takeuchi, Tetsuya Tomita, Tomoko Toyosaki-Maeda, Motoharu Kaneko, Hiroshi Takano, Hideo Hashimoto, Kazuomi Sugamoto, Ryuji Suzuki, and Takahiro Ochi 221
- Expression of B7 Costimulatory Molecules by Salivary Gland Epithelial Cells in Patients with Sjögren's Syndrome
Menelaos N. Manoussakis, Ioannis D. Dimitriou, Efstathia K. Kapsogeorgou, Georgia Xanthou, Spiros Paikos, Maria Polihronis, and Haralampos M. Moutsopoulos 229
- Analysis of V_H-D-J_H Gene Transcripts in B Cells Infiltrating the Salivary Glands and Lymph Node Tissues of Patients with Sjögren's Syndrome
Sylke Gelrich, Sascha Rutz, Astrid Borkowski, Sven Golembowski, Erika Gromnica-Ihle, Wolfram Sterry, and Sigbert Jahn 240
- Inhibition of Transforming Growth Factor β Production by Nitric Oxide-Treated Chondrocytes: Implications for Matrix Synthesis
R. K. Studer, H. I. Georgescu, L. A. Miller, and C. H. Evans 248
- Expression of both P₁ and P₂ Purine Receptor Genes by Human Articular Chondrocytes and Profile of Ligand-Mediated Prostaglandin E₂ Release
Mitchell Koolpe, David Pearson, and Hilary P. Benton 258
- Associations of Anti- β_2 -Glycoprotein I Autoantibodies with HLA Class II Alleles in Three Ethnic Groups
Frank C. Arnett, Perumal Thiagarajan, Chul Ahn, and John D. Reville 268
- Autoantibodies to RNA Polymerases Recognize Multiple Subunits and Demonstrate Cross-Reactivity with RNA Polymerase Complexes
Masataka Kuwana, Yutaka Okano, Junichi Kaburaki, Thomas A. Medsger Jr., and Timothy M. Wright 275
- Association of Polymorphism at the Type I Collagen (COL1A1) Locus with Reduced Bone Mineral Density, Increased Fracture Risk, and Increased Collagen Turnover
R. W. Keen, K. L. Woodford-Richens, S. F. A. Grant, S. H. Ralston, J. S. Lanchbury, and T. D. Spector .. 285
- Fas and Fas Ligand Interaction Induces Apoptosis in Inflammatory Myopathies: CD4+ T Cells Cause Muscle Cell Injury Directly in Polymyositis
Tomoko Sugiura, Yohko Murakawa, Atsushi Nagai, Masahiro Kondo, and Shotai Kobayashi 291
- Applications Invited for Editor of *Arthritis & Rheumatism*, 2000-2005** 298

Clinical Science

- Interferon- α Does Not Improve Outcome at One Year in Patients with Diffuse Cutaneous Scleroderma: Results of a Randomized, Double-Blind, Placebo-Controlled Trial
Carol M. Black, Alan J. Silman, Ariane I. Herrick, Christopher P. Denton, Helen Wilson, Jason Newman, Lucie Pompon, and Xu Shi-Wen 299
- Different Factors Influencing the Expression of Raynaud's Phenomenon in Men and Women
Liana Fraenkel, Yuqing Zhang, Christine E. Chaisson, Hildegard R. Maricq, Stephen R. Evans, Fred Brand, Peter W. F. Wilson, and David T. Felson 306
- Disease Pattern in Cranial and Large-Vessel Giant Cell Arteritis
A. Brack, V. Martinez-Taboada, A. Stanson, J. J. Goronzy, and C. M. Weyand 311
- Familial Antiphospholipid Antibody Syndrome: Criteria for Disease and Evidence for Autosomal Dominant Inheritance
Niti Goel, Thomas L. Ortel, Deeksha Bali, Joshua P. Anderson, Ian S. Gourley, Howard Smith, Colleen A. Morris, Muriel DeSimone, D. Ware Branch, Peter Ford, Donald Berdeaux, Robert A. S. Roubey, Donna D. Kostyu, Stephen F. Kingsmore, Tracy Thiel, Christopher Amos, and Michael F. Seldin 318
- Estrogen Enhancement of Anti-Double-Stranded DNA Antibody and Immunoglobulin G Production in Peripheral Blood Mononuclear Cells from Patients with Systemic Lupus Erythematosus
Naoko Kanda, Tetsuya Tsuchida, and Kunihiro Tamaki 328

Premature Morbidity from Cardiovascular and Cerebrovascular Diseases in Women with Systemic Lupus Erythematosus <i>Michael M. Ward</i>	338
Economic Consequences of the Progression of Rheumatoid Arthritis in Sweden <i>Gisela Kobelt, Kerstin Eberhardt, Linus Jönsson, and Bengt Jönsson</i>	347
Dose-Loading with Hydroxychloroquine Improves the Rate of Response in Early, Active Rheumatoid Arthritis: A Randomized, Double-Blind Six-Week Trial with Eighteen-Week Extension <i>Daniel E. Furst, Herbert Lindsley, Bruce Baethge, Gary R. Botstein, Jacques Caldwell, Fredrick Dietz, Robert Ettlinger, Harvey E. Golden, George E. McLaughlin, Larry W. Moreland, W. Neal Roberts, Theodore W. Rooney, Bruce Rothschild, Marshall Sack, Anthony I. Sebba, Michael Weisman, Kathryn E. Welch, and David Yocum</i>	357
Genetic Influences on Cervical and Lumbar Disc Degeneration: A Magnetic Resonance Imaging Study in Twins <i>P. N. Sambrook, A. J. MacGregor, and T. D. Spector</i>	366
Association of the Inflammatory State in Active Juvenile Rheumatoid Arthritis with Hypo-High-Density Lipoproteinemia and Reduced Lipoprotein-Associated Platelet-Activating Factor Acetylhydrolase Activity <i>Alexandros D. Tselepis, Moses Elisaf, Sotiris Besis, Sonia-Athena P. Karabina, M. John Chapman, and Antigoni Siamopoulou</i>	373
Clinical Image	
Histopathologic Features of Cerebral Vasculitis Associated with <i>Mycobacterium tuberculosis</i> <i>Francisco J. Blanco García, Mercedes Sánchez Blas, and Mercedes Freire González</i>	383
Case Report	
Alternating Antineutrophil Cytoplasmic Antibody Specificity: Drug-Induced Vasculitis in a Patient with Wegener's Granulomatosis <i>Hyon K. Choi, Peter A. Merkel, Jan Willem Cohen Tervaert, Robert M. Black, Robert T. McCluskey, and John L. Niles</i>	384
Concise Communication	
Increased Serum Levels of Antibodies Against Human Cytomegalovirus and Prevalence of Autoantibodies in Systemic Sclerosis <i>Michel Neidhart, Stephan Kuchen, Oliver Distler, Pius Brühlmann, Beat A. Michel, Renate E. Gay, and Steffen Gay</i>	389
Letters	
Further Thoughts on the Immunomodulatory Role of Glucocorticoids: Comments on the Article by Buttgerit et al <i>Thomas Wilckens</i>	393
Reply <i>Frank Buttgerit, Gerd-Rüdiger Burmester, and Martin Wehling</i>	395
Do We Need Pediatric Rheumatologists? The Hamburg, Germany Experience <i>Ivan Foeldvari</i>	396
Estimates of the US Prevalence of Systemic Lupus Erythematosus: Comment on the Article by Lawrence et al <i>Wendell A. Wilson</i>	396
ACR Announcements	12A

VOLUME 42

MARCH 1999

NO. 3

Special Articles

Review: Genetics and Osteoarthritis: Exposing the Iceberg <i>Daniel Holderbaum, Tariq M. Haqqi, and Roland W. Moskowitz</i>	397
ACR Presidential Address: Y2K, Strategic Alliances, and You <i>Ronald L. Kaufman</i>	406

Clinical Science

Provision of Primary Care by Office-Based Rheumatologists: Results from the National Ambulatory Medical Care Surveys, 1991-1995 <i>Michael M. Ward</i>	409
The Epidemiology of Rheumatoid Arthritis in Rochester, Minnesota, 1955-1985 <i>Sherine E. Gabriel, Cynthia S. Crowson, and W. Michael O'Fallon</i>	415

Microscopic Polyangiitis: Clinical and Laboratory Findings in Eighty-Five Patients <i>Loïc Guillevin, Bernard Durand-Gassetin, Ramiro Cevallos, Martine Gayraud, François Lhote, Patrice Callard, Jacques Amouroux, Philippe Casassus, and Bernard Jarrousse</i>	421
Filtration Leukocytapheresis Therapy in Rheumatoid Arthritis: A Randomized, Double-Blind, Placebo-Controlled Trial <i>Toshihiko Hidaka, Kimihiro Suzuki, Yasunori Matsuki, Mitsuyo Takamizawa-Matsumoto, Kouji Kataharada, Toshiaki Ishizuka, Makoto Kawakami, and Haruo Nakamura</i>	431
Tumor Necrosis Factor α Microsatellite Polymorphism is Associated with Rheumatoid Arthritis Severity Through an Interaction with the HLA-DRB1 Shared Epitope <i>Hua Mu, John J. Chen, Yebin Jiang, Mary-Claire King, Glenys Thomson, and Lindsey A. Criswell</i>	438
Serum Lipoprotein(a) and Apolipoprotein(a) Phenotypes in Patients with Rheumatoid Arthritis <i>Yu Asanuma, Shinichi Kawai, Hideyuki Aoshima, Junichi Kaburaki, and Yutaka Mizushima</i>	443
Detection of Human Retrovirus 5 in Patients with Arthritis and Systemic Lupus Erythematosus <i>David J. Griffiths, Stephen P. Cooke, Christine Hervé, Shirley P. Rigby, Eleanor Mallon, Ali Hajeer, Matthew Lock, Vincent Emery, Peter Taylor, Panagiotis Pantelidis, Christopher B. Bunker, Ronald du Bois, Robin A. Weiss, and Patrick J. W. Venables</i>	448
A Critical Evaluation of Enzyme Immunoassays for Detection of Antinuclear Autoantibodies of Defined Specificities. I. Precision, Sensitivity, and Specificity <i>Eng M. Tan, Josef S. Smolen, J. S. McDougal, Brian T. Butcher, Doyt Conn, Roger Dawkins, Marvin J. Fritzler, Thomas Gordon, John A. Hardin, Joachim R. Kalden, Robert G. Lahita, Ravinder N. Maini, Naomi F. Rothfield, Ruud Smeenk, Yoshinari Takasaki, Walther J. van Venrooij, Allan Wiik, Merlin Wilson, and James A. Koziol</i>	455
Influence of Ethnic Background on Clinical and Serologic Features in Patients with Systemic Sclerosis and Anti-DNA Topoisomerase I Antibody <i>Masataka Kuwana, Junichi Kaburaki, Frank C. Arnett, Robert F. Howard, Thomas A. Medsger, Jr., and Timothy M. Wright</i>	465
Effects of Joint Lavage and Steroid Injection in Patients with Osteoarthritis of the Knee: Results of a Multicenter, Randomized, Controlled Trial <i>Philippe Ravaud, Laurence Moulinier, Bruno Giraudeau, Xavier Ayral, Corinne Guerin, Eric Noel, Philippe Thomas, Bruno Fautrel, Bernard Mazieres, and Maxime Dougados</i>	475
The Associations of Bone Mineral Density and Bone Turnover Markers with Osteoarthritis of the Hand and Knee in Pre- and Perimenopausal Women <i>Maryfran Sowers, Laurie Lachance, David Jamadar, Marc C. Hochberg, Bruce Hollis, Mary Crutchfield, and Mary L. Jannausch</i>	483
Basic Science	
Gene Transfer of Cytokine Inhibitors into Human Synovial Fibroblasts in the SCID Mouse Model <i>Ulf Müller-Ladner, Christopher H. Evans, Barry N. Franklin, Charles R. Roberts, Renate E. Gay, Paul D. Robbins, and Steffen Gay</i>	490
Efficacy of Sustained Blood Levels of Interleukin-1 Receptor Antagonist in Animal Models of Arthritis: Comparison of Efficacy in Animal Models with Human Clinical Data <i>Alison Bendele, Tracy McAbee, Gina Sennello, Jan Frazier, Elizabeth Chlipala, and Dorothy McCabe</i>	498
Synovial Fluid Transforming Growth Factor β Inhibits Dendritic Cell-T Lymphocyte Interactions in Patients with Chronic Arthritis <i>Kelly L. Summers, John L. O'Donnell, Axel Heiser, John Highton, and Derek N. J. Hart</i>	507
Tumor Necrosis Factor α Regulation of the Fas-Mediated Apoptosis-Signaling Pathway in Synovial Cells <i>Tetsuya Kobayashi, Kazuyoshi Okamoto, Tetsuji Kobata, Tomoko Hasunuma, Takayuki Sumida, and Kusuki Nishioka</i>	519
Immune Responses to Cartilage Link Protein and the G1 Domain of Proteoglycan Aggrecan in Patients with Osteoarthritis <i>Alexei Guerassimov, Yiping Zhang, Annie Cartman, Lawrence C. Rosenberg, John Esdaile, Mary-Ann Fitzcharles, and A. Robin Poole</i>	527
Changes in Joint Cartilage Aggrecan After Knee Injury and in Osteoarthritis <i>L. Stefan Lohmander, Mirela Ionescu, Hitu Jugessur, and A. Robin Poole</i>	534
Diacerhein Treatment Reduces the Severity of Osteoarthritis in the Canine Cruciate-Deficiency Model of Osteoarthritis <i>Gerald N. Smith, Jr., Stephen L. Myers, Kenneth D. Brandt, Elizabeth A. Mickler, and Marjorie E. Albrecht</i>	545
Transduction Mechanisms of Porcine Chondrocyte Inorganic Pyrophosphate Elaboration <i>Lawrence M. Ryan, Indira V. Kurup, and Herman S. Cheung</i>	555

Vasculitis in the Palmerston North Mouse Model of Lupus: Phenotype and Cytokine Production Profile of Infiltrating Cells <i>Irina G. Luzina, Robert H. Knitzer, Sergei P. Atamas, William C. Gause, John C. Papadimitriou, Marcelo B. Szein, Catherine E. Storrer, and Barry S. Handwerger</i>	561
Case Report	
Interferon- β 1A-Induced Polyarthritis in a Patient with the HLA-DRB1*0404 Allele <i>Marc C. Levesque, Frances E. Ward, Douglas R. Jeffery, and J. Brice Weinberg</i>	569
Clinical Images	
Watermelon Stomach <i>Frederick T. Murphy, Raymond J. Enzenauer, and Christopher P. Cheney</i>	573
Radiologic Vignette	
Sacroiliitis, Hyperostosis Sternoclavicularis, and Psoriasis Palmoplantaris in Monozygotic Twins <i>Axel Hoffmann, Robert Dinser, Roland Linder, Karl F. R. Neufang, and Wilhelm Krone</i>	574
Concise Communications	
Spinal Epidural Hematoma Complicating Active Systemic Lupus Erythematosus <i>Berna Goker and Joel A. Block</i>	577
Diffuse Infiltrative Lymphocytosis Syndrome in a Patient with Anti-52-kd Ro/SSA and Human Immunodeficiency Virus Type 1 <i>Arne Hansen, Eugen Feist, Falk Hiepe, Gerd Rüdiger Burnester, and Jürgen Scholze</i>	578
Efficacy of Thalidomide in the Treatment of Refractory Ankylosing Spondylitis <i>Maxime Breban, Bruno Gombert, Bernard Amor, and Maxime Dougados</i>	580
Lack of Endothelial Cell Apoptosis in the Dermis of Tight Skin 1 and Tight Skin 2 Mice <i>Roswitha Sgonc, Hermann Dietrich, Claudia Sieberer, Georg Wick, Paul J. Christner, and Sergio A. Jiménez</i>	581
Letters	
We Need Simple Guidelines for Reporting Rates of Rheumatic Diseases <i>Daniel J. McCarty, C. Kent Kwoh, Rosalind Ramsey-Goldman, Susan Manzi, and Thomas A. Medsger, Jr.</i>	585
Significantly Increased Frequency of Baseline IgA Anti-Type II Collagen Positivity in the Placebo Group in a Study of Oral Type II Collagen Treatment of Rheumatoid Arthritis: Comment on the Article by Barnett et al <i>Alfonse T. Masi and Jean C. Aldag</i>	585
Reply <i>Martha L. Barnett and David E. Trentham</i>	587
The Influence of Sex on the Frequency of Erosive Disease and Extraarticular Manifestations in Rheumatoid Arthritis: Comment on the Article by Weyand et al <i>Graciela S. Alarcón</i>	587
Sex-Associated Factors and the Presentation of Rheumatoid Arthritis: Comment on the Article by Weyand et al <i>A. Saraux, C. Guedes, H. Belghomari, P. Youinou, and P. Le Goff</i>	588
Reply <i>Cornelia M. Weyand and Jörg J. Goronzy</i>	589
Expression of Matrix Metalloproteinase 1 in Rodents: Comment on the Article by Huebner et al <i>Moisés Selman and Annie Pardo</i>	590
Reply <i>Janet L. Huebner and Virginia B. Kraus</i>	590
Interleukin-10 Promoter Polymorphism and Lupus Nephritis: Comment on the Article by Mok et al <i>Esther Crawley, David Isenberg, Patricia Woo, and Richard Kay</i>	590
Reply <i>Chi Chiu Mok, Chak Sing Lau, and Jerry S. Lanchbury</i>	591
The Role of Carrier Protein in the Sensitivity of Enzyme-Linked Immunosorbent Assay for Antiribosomal P Protein Antibodies: Further Comment on the Article by Yoshio et al <i>Shunsei Hirohata, Kunio Isshi, and Satoshi Toyoshima</i>	593
Pyrophosphate Arthritis After Intraarticular Injection of Hyaluronan: Comment on the Article by Luzar and Altawil <i>Jean Francis Maillefert and Christian Tavernier</i>	594
ACR Announcements	17A

Special Articles

- Editorial: A College for Its Teachers
David S. Pisetsky and Barbara White 595
- The American College of Rheumatology Nomenclature and Case Definitions for Neuropsychiatric Lupus Syndromes
ACR Ad Hoc Committee on Neuropsychiatric Lupus Nomenclature 599
- Review: Signal Transduction and Transcription Factors in Rheumatic Disease
Gary S. Firestein and Anthony M. Manning 609

Basic Science

- Synovial Fluid CD146 (MUC18), a Marker for Synovial Membrane Angiogenesis in Rheumatoid Arthritis
Michel Neidhart, Rolf Wehrli, Pius Brühlmann, Beat A. Michel, Renate E. Gay, and Steffen Gay 622
- IgG Anti-Endothelial Cell Autoantibodies from Patients with Systemic Lupus Erythematosus or Systemic Vasculitis Stimulate the Release of Two Endothelial Cell-Derived Mediators, Which Enhance Adhesion Molecule Expression and Leukocyte Adhesion in an Autocrine Manner
Dulce Carvalho, Caroline O. S. Savage, David Isenberg, and Jeremy D. Pearson 631
- Specific Targeting of Activated Endothelium in Rat Adjuvant Arthritis with a ^{99m}Tc-Radiolabeled E-Selectin-Binding Peptide
Kurt R. Zinn, Tandra R. Chaudhuri, Cheryl A. Smyth, Qi Wu, Hong-Gang Liu, Martin Fleck, John D. Mountz, and James M. Mountz 641
- Expression of the Activation Antigen CD97 and Its Ligand CD55 in Rheumatoid Synovial Tissue
Jörg Hamann, Jérôme O. Wishaupt, René A. W. van Lier, Tom J. M. Smeets, Ferdinand C. Breedveld, and Paul P. Tak 650
- Modulation of Hyaluronan Receptor (CD44) Function In Vivo in a Murine Model of Rheumatoid Arthritis
Katalin Mikecz, Kathryn Dennis, Mei Shi, and Jonathan H. Kim 659
- Different Mechanisms of Synovial Hyperplasia in Rheumatoid Arthritis and Pigmented Villonodular Synovitis: The Role of Telomerase Activity in Synovial Proliferation
Kazuo Yudoh, Hiroaki Matsuno, Takeshi Nezuka, and Tomoatsu Kimura 669
- Systemic Viral Interleukin-10 Gene Delivery Prevents Cartilage Invasion by Human Rheumatoid Synovial Tissue Engrafted in SCID Mice
Christian Jorgensen, Florence Apparailly, François Canovas, Claudie Verwaerde, Claude Auriault, Chantal Jacquet, and Jacques Sany 678
- Expression of Murine *HOXD9* During Embryonic Joint Patterning and in Human T Lymphotropic Virus Type I *TAX* Transgenic Mice with Arthropathy Resembling Rheumatoid Arthritis
Nguyen Dinh Khoa, Tomoko Hasunuma, Tetsuji Kobata, Tomohiro Kato, and Kusuki Nishioka 686
- Autoantibodies in Primary Sjögren's Syndrome are Directed Against Proteasomal Subunits of the α and β Type
Eugen Feist, Ulrike Kuckelkorn, Thomas Dörner, Helge Dönitz, Sonja Scheffler, Falk Hiepe, Peter-M. Kloetzel, and Gerd-R. Burmester 697
- T Cell Receptor β -Chain Third Complementarity-Determining Region Gene Usage is Highly Restricted Among Sm-B Autoantigen-Specific Human T Cell Clones Derived from Patients with Connective Tissue Disease
Beth L. Talken, Margaret-Mary Holyst, David R. Lee, and Robert W. Hoffman 703
- Inhibition of Tumor Necrosis Factor α -Induced Prostaglandin E_2 Production by the Antiinflammatory Cytokines Interleukin-4, Interleukin-10, and Interleukin-13 in Osteoarthritic Synovial Fibroblasts: Distinct Targeting in the Signaling Pathways
Nada Alaaeddine, John A. Di Battista, Jean-Pierre Pelletier, Kayghobad Kiansa, Jean-Marie Cloutier, and Johanne Martel-Pelletier 710
- Differential Patterns of Response to Doxycycline and Transforming Growth Factor $\beta 1$ in the Down-Regulation of Collagenases in Osteoarthritic and Normal Human Chondrocytes
Boris V. Shlopov, Gerald N. Smith, Jr., Ada A. Cole, and Karen A. Hasty 719

Clinical Science

- A Prospective Analysis of Cognitive Function and Anticardiolipin Antibodies in Systemic Lupus Erythematosus
John G. Hanly, Connie Hong, Stephanie Smith, and John D. Fisk 728
- A Longitudinal Study of Anticardiolipin Antibody Levels and Cognitive Functioning in Systemic Lupus Erythematosus
S. Menon, E. Jameson-Shortall, S. P. Newman, M. R. Hall-Craggs, R. Chinn, and D. A. Isenberg 735

Cytokine Profiles in Wegener's Granulomatosis: Predominance of Type 1 (Th1) in the Granulomatous Inflammation	
<i>Elena Csernok, Andreas Trabandt, Antje Müller, Guchoan C. Wang, Frank Moosig, Jens Paulsen, Armin Schnabel, and Wolfgang L. Gross</i>	742
Wegener's Granulomatosis Associated with Renal Cell Carcinoma	
<i>Efstathios Tatsis, Eva Reinhold-Keller, Karen Steindorf, Alfred C. Feller, and Wolfgang L. Gross</i>	751
Quantifying the Exact Role of HLA-DRB1 Alleles in Susceptibility to Inflammatory Polyarthritis: Results from a Large, Population-Based Study	
<i>Wendy Thomson, Beverley Harrison, Bill Ollier, Nicola Wiles, Tony Payton, Jennifer Barrett, Deborah Symmons, and Alan Silman</i>	757
Fertility and Pregnancy Outcome in Women with Systemic Sclerosis	
<i>Virginia D. Steen and Thomas A. Medsger, Jr.</i>	763
Transitions in Employment, Morbidity, and Disability Among Persons Ages 51-61 with Musculoskeletal and Non-Musculoskeletal Conditions in the US, 1992-1994	
<i>Edward H. Yelin, Laura S. Trupin, and Douglas S. Sebesta</i>	769
<i>Pneumocystis carinii</i> Pneumonia in Patients with Connective Tissue Diseases: The Role of Hospital Experience in Diagnosis and Mortality	
<i>Michael M. Ward and Fiona Donald</i>	780
Assessment of Bone Mineral Density in Adults with a History of Juvenile Chronic Arthritis: A Cross-Sectional Long-Term Followup Study	
<i>Marek Zak, Christian Hassager, Daniel J. Lovell, Susan Nielsen, Carol J. Henderson, and Freddy K. Pedersen</i>	790
Elevated Parathyroid Hormone 44-68 and Osteoarticular Changes in Patients with Genetic Hemochromatosis	
<i>Yves Pawlotsky, Philippe Le Dantec, Romain Moirand, Pascal Guggenbuhl, Anne-Marie Jouanolle, Michel Catheline, Jean Meadeb, Pierre Brissot, Yves Deugnier, and Gérard Chalès</i>	799
Clinical Images	
Diabetic Neuropathic Arthropathy	
<i>Imtraut Koop, Dieter Loreck, and Andreas Krause</i>	806
Case Reports	
Marked and Sustained Improvement Two Years After Autologous Stem Cell Transplantation in a Girl with Systemic Sclerosis	
<i>Alberto Martini, Rita Maccario, Angelo Ravelli, Daniela Montagna, Fabrizio De Benedetti, Federico Bonetti, Stefania Viola, Marco Zecca, Cesare Perotti, and Franco Locatelli</i>	807
Whipple's Arthritis: Direct Detection of <i>Tropheryma whippelii</i> in Synovial Fluid and Tissue	
<i>J. Desmond O'Duffy, W. Leroy Griffing, Chin-Yang Li, Manal F. Abdelmalek, and David H. Persing</i>	812
Concise Communications	
Altered Distribution of Fcγ Receptor IIIA Alleles in a Cohort of Korean Patients with Lupus Nephritis	
<i>Jane E. Salmon, Sonia Ng, Dae-Hyun Yoo, Tae-Hwan Kim, Seong Yoon Kim, and Gwan Gyu Song</i>	818
Sustained Response to Doxycycline Therapy in Two Patients with SAPHO Syndrome	
<i>S. C. Ballara, Q. H. Siraj, R. N. Maini, and P. J. W. Venables</i>	819
Immunogenetic Profile of Patients with Psoriatic Arthritis Varies According to the Age at Onset of Psoriasis	
<i>Proton Rahman, Catherine T. Schentag, and Dafna D. Gladman</i>	822
Letters	
Necrotizing Vasculitis Confined to the Nerves: Comment on the Concise Communication by Rosenbaum et al	
<i>R. Handa, P. Aggarwal, and J. P. Wali</i>	824
Necrotizing Vasculitis of the Peripheral Nervous System: Nonsystemic or Clinically Undetectable?	
<i>X. Puéchal and G. Said</i>	824
Reply	
<i>James T. Rosenbaum, Lynn Adams Bell, and Richard Rosenbaum</i>	825
Predictors of Visual Loss and Cerebrovascular Accidents in Giant Cell Arteritis: Comment on the Article by González-Gay et al	
<i>Emilio B. Gonzalez</i>	825
Reply	
<i>Vicente Rodríguez-Valverde, Miguel Delgado-Rodríguez, Ricardo Blanco, Victor M. Martínez-Taboada, Miguel A. González-Gay, M. Figueroa, and Esther Uriarte</i>	826
Does Normal Erythrocyte Sedimentation Rate Rule Out Polymyalgia Rheumatica? Comment on the Article by Helfgott and Kieval	
<i>Aysen Sivri</i>	827

Reply	
<i>Simon M. Helfgott and Raphael I. Kieval</i>	828
Fibromyalgia and Physical and Emotional Trauma: How are They Related? Comment on the Article by Aaron et al	
<i>Robert Ferrari and O. Kwan</i>	828
Reply	
<i>Leslie A. Aaron, Laurence A. Bradley, Graciela S. Alarcón, Michelle Y. Martin, and Kristin R. Alberts</i>	829
Opioids and Rheumatic Disease Pain: Comment on the Article by Ytterberg et al	
<i>Stephen G. Gelfand</i>	830
Reply	
<i>Maren L. Mahowald</i>	831
Is Malignant Infiltration Necessary for Development of Leukemic Arthritis? Comment on the Article by Rudwaleit et al	
<i>Sonja Praprotnik and Matija Tomšič</i>	831
Reply	
<i>Martin Rudwaleit and Jürgen Braun</i>	832
ACR Announcements	15A

VOLUME 42

MAY 1999

NO. 5

Special Articles

Review: The Key Role of Nucleosomes in Lupus	
<i>Zahir Amoura, Jean-Charles Piette, Jean-François Bach, and Sophie Koutouzov</i>	833
Review: Arterial Wall Injury in Giant Cell Arteritis	
<i>Cornelia M. Weyand and Jörg J. Goronzy</i>	844

Clinical Science

Serum Vitamin D Levels and Incident Changes of Radiographic Hip Osteoarthritis: A Longitudinal Study	
<i>Nancy E. Lane, L. Robert Gore, Steven R. Cummings, Marc C. Hochberg, Jean C. Scott, Elizabeth N. Williams, and Michael C. Nevitt, for the Study of Osteoporotic Fractures Research Group</i>	854
Laxity in Healthy and Osteoarthritic Knees	
<i>Leena Sharma, Congrong Lou, David T. Felson, Dorothy D. Dunlop, Gretchen Kirwan-Mellis, Karen W. Hayes, David Weinrach, and Thomas S. Buchanan</i>	861
Elevated Levels and Functional Capacity of Soluble CD40 Ligand in Systemic Lupus Erythematosus Sera	
<i>Radha Krishna Vakkalanka, Caroline Woo, Kyriakos A. Kirou, Mary Koshy, Douglas Berger, and Mary K. Crow</i>	871
Frequency of Fractures in Women with Systemic Lupus Erythematosus: Comparison with United States Population Data	
<i>Rosalind Ramsey-Goldman, Julie E. Dunn, Cheng-Fang Huang, Dorothy Dunlop, Joan E. Rairie, Shirley Fitzgerald, and Susan Manzi</i>	882
Hospital Experience and Mortality in Patients with Systemic Lupus Erythematosus	
<i>Michael M. Ward</i>	891
Long-Term Outcome in Mixed Connective Tissue Disease: Longitudinal Clinical and Serologic Findings	
<i>Mark A. Burdett, Robert W. Hoffman, Susan L. Deutscher, Grace S. Wang, Jane C. Johnson, and Gordon C. Sharp</i>	899
A Retrospective Cohort Study of Cigarette Smoking and Risk of Rheumatoid Arthritis in Female Health Professionals	
<i>Elizabeth W. Karlson, I.-Min Lee, Nancy R. Cook, JoAnn E. Manson, Julie E. Buring, and Charles H. Hennekens</i>	910
Magnetic Resonance Imaging-Determined Synovial Membrane Volume as a Marker of Disease Activity and a Predictor of Progressive Joint Destruction in the Wrists of Patients with Rheumatoid Arthritis	
<i>Mikkel Østergaard, Michael Hansen, Michael Stoltenberg, Peter Gideon, Mette Klarlund, Karl Erik Jensen, and Ib Lorenzen</i>	918
Activation of Microvascular Pericytes in Autoimmune Raynaud's Phenomenon and Systemic Sclerosis	
<i>Vineeth S. Rajkumar, Christian Sundberg, David J. Abraham, Kristofer Rubin, and Carol M. Black</i>	930
Different Humoral Immune Response to <i>Chlamydia trachomatis</i> Major Outer Membrane Protein Variable Domains I and IV in <i>Chlamydia</i> -Infected Patients with or without Reactive Arthritis	
<i>Sylvette Bas, Catherine Scieux, and Thomas L. Vischer</i>	942

Basic Science

- p53 Overexpression in Synovial Tissue from Patients with Early and Longstanding Rheumatoid Arthritis Compared with Patients with Reactive Arthritis and Osteoarthritis
Paul P. Tak, Tom J. M. Smeets, David L. Boyle, Maarten C. Kraan, Yan Shi, Shunrong Zhuang, Nathan J. Zvaifler, Ferdinand C. Breedveld, and Gary S. Firestein 948
- C-myc Antisense Oligodeoxynucleotides can Induce Apoptosis and Down-Regulate Fas Expression in Rheumatoid Synoviocytes
Akira Hashiramoto, Hajime Sano, Taira Maekawa, Yutaka Kawahito, Shinya Kimura, Yoshiaki Kusaka, Ronald L. Wilder, Haruki Kato, Motoharu Kondo, and Hiroo Nakajima 954
- Human Interleukin-17: A T Cell-Derived Proinflammatory Cytokine Produced by the Rheumatoid Synovium
Martine Chabaud, Jean Marc Durand, Nicolas Buchs, François Fossiez, Guillaume Page, Lucien Frappart, and Pierre Miossec 963
- p205 is a Major Target of Autoreactive T Cells in Rheumatoid Arthritis
Stefan Bläss, Frank Schumann, Norbert A. K. Hain, Joachim-Michael Engel, Bruno Stuhlmüller, and Gerd Rüdiger Burmester 971
- Predominance of Mononuclear Cells Expressing the Chemokine Receptor CCR5 in Synovial Effusions of Patients with Different Forms of Arthritis
Matthias Mack, Hilke Brühl, Rudi Gruber, Christian Jaeger, Josef Cihak, Viktoria Eiter, Jiří Plachý, Manfred Stangassinger, Katrin Uhlig, Manfred Schattenkirchner, and Detlef Schlöndorff 981
- Association of Rheumatoid Arthritis with a Functional Chemokine Receptor, CCR5
Juan J. Gómez-Reino, José L. Pablos, Patricia E. Carreira, Begoña Santiago, Lourdes Serrano, Jose L. Vicario, Alejandro Balsa, Manuel Figueroa, and María D. de Juan 989
- The Early Molecular Natural History of Experimental Osteoarthritis. I. Progressive Discoordinate Expression of Aggrecan and Type II Procollagen Messenger RNA in the Articular Cartilage of Adult Animals
John R. Matyas, Peter F. Ehlers, Dingqiu Huang, and Mark E. Adams 993
- Age-Related Decrease in Proteoglycan Synthesis of Human Articular Chondrocytes: The Role of Nonenzymatic Glycation
Jeroen DeGroot, Nicole Verzijl, Ruud A. Bank, Floris P. J. G. Lafеber, Johannes W. J. Bijlsma, and Johan M. TeKoppele 1003
- The MICA-A9 Triplet Repeat Polymorphism in the Transmembrane Region Confers Additional Susceptibility to the Development of Psoriatic Arthritis and is Independent of the Association of Cw*0602 in Psoriasis
Segundo Gonzalez, J. Martinez-Borra, J. C. Torre-Alonso, S. Gonzalez-Roces, J. Sanchez Del Río, A. Rodriguez Pérez, Chaim Brautbar, and C. López-Larrea 1010
- Immunization of Mice with Human 60-kd Ro Peptides Results in Epitope Spreading if the Peptides are Highly Homologous Between Human and Mouse
R. Hal Scofield, Kenneth M. Kaufman, Usman Baber, Judith A. James, John B. Harley, and Biji T. Kurien 1017
- Blood-Induced Joint Damage: A Human In Vitro Study
Goris Roosendaal, Marieke E. Vianen, Joannes J. M. Marx, H. Marijke van den Berg, Floris P. J. G. Lafеber, and Johannes W. J. Bijlsma 1025
- Blood-Induced Joint Damage: A Canine In Vivo Study
Goris Roosendaal, Johan M. TeKoppele, Marieke E. Vianen, H. Marijke van den Berg, Floris P. J. G. Lafеber, and Johannes W. J. Bijlsma 1033
- Cross-Restriction of a T Cell Clone to HLA-DR Alleles Associated with Rheumatoid Arthritis: Clues to Arthritogenic Peptide Motifs
Simon Hawke, Hidenori Matsuo, Michael Nicolle, Paul Wordsworth, Louise Corlett, Edward Spack, Shrikant Deshpande, Paul C. Driscoll, and Nicholas Willcox 1040

Case Reports

- Interferon- α May Exacerbate Cryoglobulinemia-Related Ischemic Manifestations: An Adverse Effect Potentially Related to its Anti-Angiogenic Activity
Maria C. Cid, José Hernández-Rodríguez, Jordi Robert, Ana del Río, Jordi Casademont, Blanca Coll-Vinent, Josep M. Grau, Hynda K. Kleinman, Alvaro Urbano-Márquez, and Francesc Cardellach 1051
- Systemic Lupus Erythematosus-Associated Catastrophic Antiphospholipid Syndrome Occurring After Typhoid Fever: A Possible Role of *Salmonella* Lipopolysaccharide in the Occurrence of Diffuse Vasculopathy-Coagulopathy
Gilles Hayem, Najiby Kassis, Pascale Nicaise, Philippe Bouvet, Antoine Andreumont, Colette Labarre, Marcel-Francis Kahn, and Olivier Meyer 1056

Clinical Images

- Geographic Tongue
Frederick T. Murphy and Raymond J. Enzenauer 1061

Concise Communications

- Environmental Factors May Modulate Antiphospholipid Antibody Production in Family Members of Patients with Systemic Lupus Erythematosus
Alain Saraux, Jean Jouquan, Paul Le Goff, Pierre Youinou, Yair Levy, Jean-Charles Piette, Loïc Guillevin, Gilbert Semana, Denise Salmon, Jean-Paul Viard, Jean-François Bach, and Yehuda Shoenfeld 1062
- Failure to Detect Human Papillomavirus in Primary Sjögren's Syndrome
S. Steinfeld, J. C. Noel, and T. Appelboom 1064

Clinical Image

- Lattice Pattern of Osseous Destruction in Sarcoidosis
Linda E. Grismer, Mark D. Harris, and William B. Morrison 1065

Letters

- Does Treatment with Glucocorticoids or with Disease-Modifying Antirheumatic Drugs Reduce the Rate of Radiographic Progression in Rheumatoid Arthritis? Comment on the Article by Abu-Shakra et al
John R. Kirwan 1066
- Reply
Mahmoud Abu-Shakra, Michael Friger, Daniel Flusser, Shaul Sukenik, and Dan Buskila 1066
- Proinflammatory Cytokine Production and Cell Adhesion Molecule Expression Compared in Rheumatoid Nodules and Synovial Membranes: Comment on the Article by Wikaningrum et al
Dirk Elewaut, Filip De Keyser, Gust Verbruggen, and Eric M. Veys 1067
- Reply
Peter Roberts-Thomson, Michael Ahern, and Malcolm D. Smith 1068
- Interpreting the Results of a Segregation Analysis of Generalized Radiographic Osteoarthritis: Comment on the Article by Felson et al
Tim D. Spector, Harold Snieder, Richard Keen, Cathryn Lewis, and Alex MacGregor 1068
- Reply
David T. Felson and Richard Myers 1069

ACR Announcements

VOLUME 42

JUNE 1999

NO. 6

Special Articles

- Review: The Genetics Revolution and the Assault on Rheumatoid Arthritis
Michael F. Seldin, Christopher I. Amos, Ryk Ward, and Peter K. Gregersen 1071
- Current Comment: Psoriatic Arthritis: A Unified Concept Twenty Years On
Dennis McGonagle, Philip G. Conaghan, and Paul Emery 1080
- In Memoriam: James Sydney Stillman, MD, 1908-1998
Ronald Anderson, Matthew Liang, and Peter Schur 1087

Basic Science

- Dominant-Negative p53 Mutations in Rheumatoid Arthritis
Zuoning Han, David L. Boyle, Yan Shi, Douglas R. Green, and Gary S. Firestein 1088
- Interleukin-1 β , Interleukin-1 Receptor Antagonist, Interleukin-4, and Interleukin-10 Gene Polymorphisms: Relationship to Occurrence and Severity of Rheumatoid Arthritis
Alain Cantagrel, Frédérique Navaux, Patrick Loubet-Lescoulié, Fathi Nourhashemi, Geneviève Enault, Michel Abbal, Arnaud Constantin, Michel Laroche, and Bernard Mazières 1093
- Polymorphic Haplotypes of the Interleukin-10 5' Flanking Region Determine Variable Interleukin-10 Transcription and are Associated with Particular Phenotypes of Juvenile Rheumatoid Arthritis
Esther Crawley, Richard Kay, James Sillibourne, Pritash Patel, Ian Hutchinson, and Patricia Woo 1101
- Association of the Course of Collagen-Induced Arthritis with Distinct Patterns of Cytokine and Chemokine Messenger RNA Expression
Sherry Thornton, Laura E. Duwel, Gregory P. Boivin, Yuhe Ma, and Raphael Hirsch 1109
- Hemoglobin Protects from Streptococcal Cell Wall-Induced Arthritis
Nancy L. McCartney-Francis, Xiao-Yu Song, Diane E. Mizel, Chris L. Wahl, and Sharon M. Wahl 1119
- Kinetics of Aggrecanase- and Metalloproteinase-Induced Neopeptides in Various Stages of Cartilage Destruction in Murine Arthritis
Joyce B. J. van Meurs, Peter L. E. M. van Lent, Astrid E. M. Holthuysen, Irwin I. Singer, Ellen K. Bayne, and Wim B. van den Berg 1128

Specificity of Inhibition of Matrix Metalloproteinase Activity by Doxycycline: Relationship to Structure of the Enzyme

- Gerald N. Smith, Jr., Elizabeth A. Mickler, Karen A. Hasty, and Kenneth D. Brandt*..... 1140
 Collagenase 3 Production by Human Osteoarthritic Chondrocytes in Response to Growth Factors and Cytokines is a Function of the Physiologic State of the Cells

Ginette Tardif, Jean-Pierre Pelletier, Martine Dupuis, ChangShan Geng, Jean-Marie Cloutier, and Johanne Martel-Pelletier 1147

Treatment with Calcitonin Suppresses the Responses of Bone, Cartilage, and Synovium in the Early Stages of Canine Experimental Osteoarthritis and Significantly Reduces the Severity of the Cartilage Lesions

Daniel-Henri Manicourt, Roy D. Altman, James M. Williams, Jean-Pierre Devogelaer, Anne Druetz-Van Egeren, Mary Ellen Lenz, Daniel Pietryla, and Eugene J.-M. A. Thonar 1159

Production of Type 2 Cytokines by CD8+ Lung Cells is Associated with Greater Decline in Pulmonary Function in Patients with Systemic Sclerosis

Sergei P. Atamas, Vladimir V. Yurovsky, Robert Wise, Fredrick M. Wigley, Carol J. Goter Robinson, Patricia Henry, William J. Alms, and Barbara White..... 1168

An Immunodominant Epitope on DNA Topoisomerase I is Conformational in Nature: Heterogeneity in Its Recognition by Systemic Sclerosis Sera

Masataka Kuwana, Junichi Kaburaki, Thomas A. Medsger, Jr., and Timothy M. Wright..... 1179

Polymorphism of β_2 -Glycoprotein I at Codons 306 and 316 in Patients with Systemic Lupus Erythematosus and Antiphospholipid Syndrome

Francisca C. Gushiken, Frank C. Arnett, Chul Ahn, and Perumal Thiagarajan 1189

Clinical Science

High-Dose Versus Low-Dose D-Penicillamine in Early Diffuse Systemic Sclerosis: Analysis of a Two-Year, Double-Blind, Randomized, Controlled Clinical Trial

Philip J. Clements, Daniel E. Furst, Weng-Kee Wong, Maureen Mayes, Barbara White, Fredrick Wigley, Michael H. Weisman, Walter Barr, Larry W. Moreland, Thomas A. Medsger, Jr., Virginia Steen, Richard W. Martin, David Collier, Arthur Weinstein, Edward Lally, John Varga, Steven Weiner, Brian Andrews, Micha Abeles, and James R. Seibold 1194

Lack of Efficacy of Oral Bovine Type II Collagen Added to Existing Therapy in Rheumatoid Arthritis

Kevin M. McKown, Laura D. Carbone, Stanley B. Kaplan, Jacob A. Aelion, Kristine M. Lohr, Michael A. Cremer, Juan Bustillo, Miguel Gonzalez, Gurjit Kaeley, Elaine L. Steere, Grant W. Somes, Linda K. Myers, Jerome M. Seyer, Andrew H. Kang, and Arnold E. Postlethwaite 1204

An Assessment of the Annual and Long-Term Direct Costs of Rheumatoid Arthritis: The Impact of Poor Function and Functional Decline

Edward Yelin and Lee A. Wanke 1209

Does Rheumatoid Arthritis Remit During Pregnancy and Relapse Postpartum? Results from a Nationwide Study in the United Kingdom Performed Prospectively from Late Pregnancy

Jennifer H. Barrett, Paul Brennan, Magdalen Fiddler, and Alan J. Silman 1219

Excessive Paternal Transmission in Psoriatic Arthritis

Proton Rahman, Dafna D. Gladman, Catherine T. Schentag, and Arturas Petronis 1228

Arthritis of the Finger Joints: A Comprehensive Approach Comparing Conventional Radiography, Scintigraphy, Ultrasound, and Contrast-Enhanced Magnetic Resonance Imaging

M. Backhaus, T. Kamradt, D. Sandrock, D. Loreck, J. Fritz, K. J. Wolf, H. Raber, B. Hamm, G.-R. Burmester, and M. Bollow 1232

Larger Increases in Bone Mineral Density During Alendronate Therapy are Associated with a Lower Risk of New Vertebral Fractures in Women with Postmenopausal Osteoporosis

Marc C. Hochberg, Philip D. Ross, Dennis Black, Steven R. Cummings, Harry K. Genant, Michael C. Nevitt, Elizabeth Barrett-Connor, Thomas Musliner, and Desmond Thompson, for the Fracture Intervention Trial Research Group 1246

The Role of Parvovirus B19 in the Pathogenesis of Giant Cell Arteritis: A Preliminary Evaluation

Sherine E. Gabriel, Mark Espy, Dean D. Erdman, Johannes Bjornsson, Thomas F. Smith, and Gene G. Hunder..... 1255

Musculoskeletal Manifestations in a Population-Based Cohort of Patients with Giant Cell Arteritis

Carlo Salvarani and Gene G. Hunder..... 1259

Reduced Utilization and Cost of Primary Care Clinic Visits Resulting from Self-Care Education for Patients with Osteoarthritis of the Knee

Steven A. Mazzuca, Kenneth D. Brandt, Barry P. Katz, Mark P. Hanna, and Catherine A. Melfi 1267

Ovarian Failure and Flares of Systemic Lupus Erythematosus

Chi Chiu Mok, Raymond Woon Sing Wong, and Chak Sing Lau 1274

<i>Chlamydia Trachomatis</i> Nucleic Acids Can be Found in the Synovium of Some Asymptomatic Subjects <i>H. Ralph Schumacher, Jr., Thurayya Arayssi, Marianna Crane, Jennifer Lee, Herve Gerard, Alan P. Hudson, and John Klippel</i>	1281
Genetic Risk and Protective Factors for Idiopathic Inflammatory Myopathy in Koreans and American Whites: A Tale of Two Loci <i>Lisa G. Rider, Ejaz Shamim, Satoshi Okada, Janardan P. Pandey, Ira N. Targoff, Terrance P. O'Hanlon, Hyun-Ah Kim, Yong Seong Lim, Hoon Han, Yeong Wook Song, and Frederick W. Miller</i>	1285
Case Report An Aggressive Form of Polyarticular Arthritis in a Man with CD154 Mutation (X-Linked Hyper-IgM Syndrome) <i>Elizabeth A. Webster, Aarif Y. Khakoo, Wendeline J. M. Mackus, Michael Karpusas, David W. Thomas, Anne Davidson, Charles L. Christian, and Seth Lederman</i>	1291
Clinical Images Skin Necrosis in Giant Cell Arteritis <i>Oliver Distler, Ulf Müller-Ladner, and Thomas Glück</i>	1296
Concise Communications Plasma Adrenomedullin in Rheumatoid Arthritis Compared with other Rheumatic Diseases <i>Kazuo Yudoh, Hiroaki Matsuno, and Tomoatsu Kimura</i>	1297
Association of Interleukin-4 Receptor and Interleukin-4 Promoter Gene Polymorphisms with Systemic Lupus Erythematosus <i>Satomi Kanemitsu, Akira Takabayashi, Yuka Sasaki, Ryuichi Kuromaru, Kenji Ihara, Yoshitugu Kaku, Kouko Sakai, and Toshiro Hara</i>	1298
Anti-[(H2A/2B)-DNA] IgG Supports the Diagnosis of Procainamide-Induced Arthritis or Pleuritis <i>Chi Chi Lau and Terry Du Clos</i>	1300
Recurrent Acute Calcium Pyrophosphate Dihydrate Arthritis Following Intraarticular Hyaluronate Injection <i>Eddys Disla, Ricardo Infante, Ahmed Fahmy, Irving Karten, and Girolamo G. Cuppari</i>	1302
Erratum Error in Figure in Article by Guerassimov et al (Arthritis Rheum, March 1999).....	1303
Letters Detecting Peripheral Nerve Involvement in Rheumatoid Arthritis Patients: Comment on the Article by Lanzillo et al <i>Stephen Kishner</i>	1304
Reply <i>B. Lanzillo, C. Crisci, N. Pappone, and C. di Girolamo</i>	1304
Autoantibodies Against Bactericidal/Permeability-Increasing Protein in Cystic Fibrosis Patients: Comment on the Article by Hoffman and Specks <i>Giovanni Taccetti, Silvia Campana, Lore Marianelli, Elena Procopio, and Stefano Turchini</i>	1305
Severe Exacerbation of Systemic Lupus Erythematosus After Hepatitis B Vaccination and Importance of Pneumococcal Vaccination in Patients with Autosplenectomy: Comment on the Article by Battafarano et al <i>Jean-Luc Senécal, Carole Bertrand, and François Coullée</i>	1307
Reply <i>Daniel F. Battafarano and Raymond J. Enzenauer</i>	1308
ACR Announcements	17A

VOLUME 42

JULY 1999

NO. 7

Special Articles

International Consensus Statement on Preliminary Classification Criteria for Definite Antiphospholipid Syndrome: Report of an International Workshop <i>Wendell A. Wilson, Azzudin E. Gharavi, Takao Koike, Michael D. Lockshin, D. Ware Branch, Jean-Charles Piette, Robin Brey, Ronald Derksen, E. Nigel Harris, Graham R. V. Hughes, Douglas A. Triplett, and Munther A. Khamashta</i>	1309
Review: Stiff-Man Syndrome: From the Bedside to the Bench <i>Simon M. Helfgott</i>	1312
In Memoriam: Richard H. Freyberg, MD, 1904-1999 <i>Charles L. Christian</i>	1321

Clinical Science

- Pharmacokinetics, Safety, and Efficacy of Combination Treatment with Methotrexate and Leflunomide in Patients with Active Rheumatoid Arthritis
Michael E. Weinblatt, Joel M. Kremer, Jonathan S. Coblyn, Agnes L. Maier, Simon M. Helfgott, Martin Morrell, Vilma M. Byrne, Mari V. Kaymakjian, and Vibeke Strand 1322
- HLA-DRB1 Alleles Associated with Susceptibility or Resistance to Rheumatoid Arthritis, Articular Deformities, and Disability in Mexican Americans
Inmaculada Del Rincón and Agustín Escalante 1329
- Estimating the Incidence of Rheumatoid Arthritis: Trying to Hit a Moving Target?
Nicola Wiles, Deborah P. M. Symmons, Beverley Harrison, Elizabeth Barrett, Jennifer H. Barrett, David G. I. Scott, and Alan J. Silman 1339
- Strong Association of Autoantibodies to Human Nuclear Lamin B1 with Lupus Anticoagulant Antibodies in Systemic Lupus Erythematosus
Jean-Luc Senécal, Joyce Rauch, Tamara Grodzicky, Jean-Pierre Raynauld, Imad Uthman, Arnulfo Nava, Martin Guimond, and Yves Raymond 1347
- Sensitivity of the Systemic Lupus Erythematosus Disease Activity Index, British Isles Lupus Assessment Group Index, and Systemic Lupus Activity Measure in the Evaluation of Clinical Change in Childhood-Onset Systemic Lupus Erythematosus
Hermine I. Brunner, Brian M. Feldman, C. Bombardier, and Earl D. Silverman 1354
- Effectiveness of Exercise Therapy in Patients with Osteoarthritis of the Hip or Knee: A Systematic Review of Randomized Clinical Trials
Margriet E. van Baar, Willem J. J. Assendelft, Joost Dekker, Rob A. B. Oostendorp, and Johannes W. J. Bijlsma 1361
- Tramadol Allows Reduction of Naproxen Dose Among Patients with Naproxen-Responsive Osteoarthritis Pain: A Randomized, Double-Blind, Placebo-Controlled Study
Thomas J. Schnitzer, Marc Kamin, and William H. Olson 1370
- Osteoarthritis and Risk of Falls, Rates of Bone Loss, and Osteoporotic Fractures
Nigel K. Arden, Michael C. Nevitt, Nancy E. Lane, L. Robert Gore, Marc C. Hochberg, Jean C. Scott, Alice R. Pressman, and Steven R. Cummings, for the Study of Osteoporotic Fractures Research Group 1378
- No Benefit of Long-Term Ciprofloxacin Treatment in Patients with Reactive Arthritis and Undifferentiated Oligoarthritis: A Three-Month, Multicenter, Double-Blind, Randomized, Placebo-Controlled Study
Joachim Sieper, Claas Fendler, Sigrid Laitko, Helmut Sörensen, Christel Gripenberg-Lerche, Falk Hiepe, Rieke Alten, Wolfgang Keitel, Annemarie Groh, Jaakko Uksila, Ulrich Eggens, Kaisa Granfors, and Jürgen Braun 1386
- The Association Between Tender Points, Psychological Distress, and Adverse Childhood Experiences: A Community-Based Study
John McBeth, Gary J. Macfarlane, Sidney Benjamin, Stella Morris, and Alan J. Silman 1397
- Fat Conversion of Femoral Marrow in Glucocorticoid-Treated Patients: A Cross-Sectional and Longitudinal Study with Magnetic Resonance Imaging
B. C. Vande Berg, J. Malghem, F. E. Lecouvet, J.-P. Devogelaer, B. Maldague, and F. A. Houssiau 1405

Basic Science

- Dendritic Cell Presentation of Antigens from Apoptotic Cells in a Proinflammatory Context: Role of Oposonizing Anti- β_2 -Glycoprotein I Antibodies
Patrizia Rovere, Maria Grazia Sabbadini, Cristina Vallinoto, Umberto Fascio, Maria Rescigno, Mariacristina Crosti, Paola Ricciardi-Castagnoli, Genesio Balestrieri, Angela Tincani, and Angelo A. Manfredi 1412
- Monoclonal Anti-Endothelial Cell Antibodies from a Patient with Takayasu Arteritis Activate Endothelial Cells from Large Vessels
Miri Blank, Ilan Krause, Tzipora Goldkorn, Sonja Praprotnik, Avi Livneh, Prina Langevitz, Ella Kaganovsky, Sara Morgenstern, Shlomo Cohen, Vivian Barak, Amiram Eldor, Babette Weksler, and Yehuda Shoenfeld 1421
- Stable Transfection of Human Fetal Chondrocytes with a Type II Procollagen Minigene: Expression of the Mutant Protein and Alterations in the Structure of the Extracellular Matrix In Vitro
R. M. Dharmavaram, G. Liu, R. S. Tuan, D. G. Stokes, and S. A. Jiménez 1433
- Reexpression of Type IIA Procollagen by Adult Articular Chondrocytes in Osteoarthritic Cartilage
Thomas Aigner, Yong Zhu, Howard H. Chansky, Frederick A. Matsen, III, William J. Maloney, and Linda J. Sandell 1443
- Identification of Multiple, Differentially Expressed Messenger RNAs in Dermal Fibroblasts from Patients with Systemic Sclerosis
Carol A. Feghali and Timothy M. Wright 1451

High Prevalence of T Cell Type I Protein Kinase A Deficiency in Systemic Lupus Erythematosus <i>Gary M. Kammer</i>	1458
Lymphoma Development in Sjögren's Syndrome: Novel p53 Mutations <i>Nikolaos I. Tapinos, Mary Polihronis, and Haralampos M. Moutsopoulos</i>	1466
Detection of <i>Borrelia burgdorferi</i> Ssensu Stricto by Reverse Line Blot in the Joints of Dutch Patients with Lyme Arthritis <i>Ineke M. van der Heijden, Bert Wilbrink, Sjoerd G. T. Rijpkema, Leo M. Schouls, Peter H. M. Heymans, Jan D. A. van Embden, Ferdinand C. Breedveld, and Paul P. Tak</i>	1473
Distinct Vascular Patterns of Early Synovitis in Psoriatic, Reactive, and Rheumatoid Arthritis <i>R. J. Reece, J. D. Canete, W. J. Parsons, P. Emery, and D. J. Veale</i>	1481
Synovial Epstein-Barr Virus Infection Increases the Risk of Rheumatoid Arthritis in Individuals with the Shared HLA-DR4 Epitope <i>Johannes G. Saal, Michael Krimmel, Michael Steidle, Friederike Gerneth, Silvia Wagner, Peter Fritz, Silvia Koch, Josef Zacher, Stefan Sell, Hermann Einsele, and Claudia A. Müller</i>	1485
T Cell Responses to a Human Cartilage Autoantigen in the Context of Rheumatoid Arthritis-Associated and Nonassociated HLA-DR4 Alleles <i>Andrew P. Cope, Salil D. Patel, Frances Hall, Mauro Congia, Henk A. J. M. Hubers, Gijs F. Verheijden, Annemieke M. H. Boots, Rajasree Menon, Massimo Trucco, Antonius W. M. Rijnders, and Grete Sønderstrup</i>	1497
Production of Interleukin-7 and Interleukin-15 by Fibroblast-Like Synoviocytes from Patients with Rheumatoid Arthritis <i>Seishi Harada, Masahiro Yamamura, Hideyuki Okamoto, Yoshitaka Morita, Masanori Kawashima, Tetsushi Aita, and Hirofumi Makino</i>	1508
Characterization of Collagenase 3 (Matrix Metalloproteinase 13) Messenger RNA Expression in the Synovial Membrane and Synovial Fibroblasts of Patients with Rheumatoid Arthritis <i>Claudia Schulze Westhoff, Dirk Freudiger, Peter Petrow, Christine Seyfert, Josef Zacher, Jörg Kriegsmann, Thomas Pap, Steffen Gay, Peter Stiehl, Erika Gromnica-Ihle, and Dirk Wernicke</i>	1517
Apoptotic Chondrocyte Death in Rheumatoid Arthritis <i>Hyun Ah Kim and Yeong Wook Song</i>	1528
Inhibitory Effect of Annexin I on Synovial Inflammation in Rat Adjuvant Arthritis <i>Yuanhang Yang, Paul Hutchinson, and Eric F. Morand</i>	1538
Case Report	
Octreotide Treatment of Chronic Intestinal Pseudoobstruction Secondary to Connective Tissue Diseases <i>Gabriel Perlemuter, Patrice Cacoub, Stanislas Chaussade, Bertrand Wechsler, Daniel Couturier, and Jean-Charles Piette</i>	1545
Clinical Images	
Early Diagnosis of Takayasu Arteritis Using Gadolinium-Enhanced Magnetic Resonance Imaging <i>Masahiro Iwamoto, Yuko Ogawa-Shirota, Hidetomo Sato, Taku Yoshio, Hitoaki Okazaki, Akifumi Fujita, Hideharu Sugimoto, and Seiji Minota</i>	1549
Radiologic Vignette	
Femoral Head Osteonecrosis in a Child with Hemophilia <i>Ray F. Kilcoyne and Rachelle Nuss</i>	1550
Concise Communications	
A Preliminary Definition of the Term "Cure" as Applied to Systemic Lupus Erythematosus <i>H. H. Euler</i>	1552
An Update on HLA Association of Mi-2 Autoantibodies: The Association with a Tryptophan at Position 9 of the HLA-DR β Chain is Strong but Not Absolute <i>Rudolf Mierau, Thomas Dick, Ekkehard Genth, Peter Bartz-Bazzanella, Elisabeth Keller, and Ekkehard D. Albert</i>	1552
Rheumatic Diseases in Ayurveda: A Historical Perspective <i>G. Ulrich-Merzenich, K. Kraft, and L. M. Singh</i>	1553
Letters	
Dose-Loading with Hydroxychloroquine in Rheumatoid Arthritis: Comment on the Article by Furst et al <i>Richard P. Handler</i>	1556
Reply <i>Daniel E. Furst</i>	1556
Methodologic Issues for the Assessment of Reproducibility: Comment on the Article by Genant et al <i>Bruno Giraudeau and Philippe Ravaud</i>	1556
Correlation Analysis Versus Bland-Altman Analysis: Comment on the Article by Genant et al <i>Martin Utley, Steve Gallivan, Josh Dixey, and Adam Young</i>	1557
Reply <i>Harry K. Genant and Ying Lu</i>	1558

Lymphoma Infiltrate or Hyperparathyroidism? Comment on the Clinical Image by Drosos and Bai Ray F. Kilcoyne	1559
Reply Alexandros A. Drosos and Mary K. Bai	1559
Systemic Lupus Erythematosus in Patients Native to West and Central Africa: Comment on the Article by Bae et al Zahir Amoura, Le Thi Huong Du, Patrice Cacoub, Camille Francès, and Jean-Charles Piette	1560
Reply Sang-Cheol Bae, Patricia Fraser, and Matthew H. Liang	1561
Can HLA-DR Explain the Varying Frequency of Synovitis in Polymyalgia Rheumatica? Comment on the Article by Salvarani et al Miguel A. González-Gay, Carlos García-Porrúa, Ali Hajeer, and William E. R. Ollier	1561
Reply Carlo Salvarani, PierLuigi Macchioni, Luigi Boiardi, Fabrizio Cantini, and Ignazio Olivieri	1562
ACR Announcements	19A

VOLUME 42

AUGUST 1999

NO. 8

Special Articles

Review: Rheumatic Disease and Cystic Fibrosis Peter A. Merkel	1563
Current Comment: ACR 20: Clinical or Statistical Significance? Theodore Pincus and C. Michael Stein	1572

Basic Science

Interleukin-1 β -Converting Enzyme/Caspase-1 in Human Osteoarthritic Tissues: Localization and Role in the Maturation of Interleukin-1 β and Interleukin-18 Nathalie Saha, Florina Moldovan, Ginette Tardif, Jean-Pierre Pelletier, Jean-Marie Cloutier, and Johanne Martel-Pelletier	1577
Expression of Cathepsin K Messenger RNA in Giant Cells and Their Precursors in Human Osteoarthritic Synovial Tissues Robert A. Dodds, Janice R. Connor, Fred H. Drake, and Maxine Gowen	1588
Analysis of the p53 Tumor Suppressor Gene in Rheumatoid Arthritis Synovial Fibroblasts Frank Kullmann, Martin Judex, Ingrid Neudecker, Sandra Lechner, Hans-Peter Jüsten, Douglas R. Green, Dieter Wessinghage, Gary S. Firestein, Steffen Gay, Jürgen Schölmerich, and Ulf Müller-Ladner	1594
Macrophage Migration Inhibitory Factor in Rheumatoid Arthritis: Evidence of Proinflammatory Function and Regulation by Glucocorticoids Michelle Leech, Christine Metz, Pamela Hall, Paul Hutchinson, Katerina Gianis, Malcolm Smith, Helen Weedon, Stephen R. Holdsworth, Richard Bucala, and Eric F. Morand	1601
Selective Expression of Folate Receptor β and its Possible Role in Methotrexate Transport in Synovial Macrophages from Patients with Rheumatoid Arthritis Noriko Nakashima-Matsushita, Toshio Homma, Su Yu, Takemasa Matsuda, Nobuhiko Sunahara, Tadashi Nakamura, Michishi Tsukano, Manohar Ratnam, and Takami Matsuyama	1609
Linkage of a Marker in Intronic D of the Estrogen Synthase Locus to Rheumatoid Arthritis Sally John, Anne Myerscough, Stephen Eyre, Philip Roby, Ali Hajeer, Alan J. Silman, William E. R. Ollier, and Jane Worthington	1617
No Support for HLA-DQ Encoded Susceptibility in Rheumatoid Arthritis Niek de Vries, Claudia van Elderen, Henk Tijssen, Piet L. C. M. van Riel, and Leo B. A. van de Putte	1621
Treatment of Experimental Autoimmune Arthritis by Nasal Administration of a Type II Collagen-Cholera Toxoid Conjugate Vaccine Andrzej Tarkowski, Jia-Bin Sun, Rikard Holmdahl, Jan Holmgren, and Cecil Czerkinsky	1628
Delayed Onset and Reduced Severity of Collagen-Induced Arthritis in Interleukin-6-Deficient Mice Mitsuko Sasai, Yukihiko Sasaki, Shiro Ohshima, Katsuhiko Nishioka, Toru Mima, Toshio Tanaka, Yoshinori Katada, Kazuyuki Yoshizaki, Masaki Suemura, and Tadamiyuki Kishimoto	1635
Th1/Th2 Balance of Peripheral T Helper Cells in Systemic Lupus Erythematosus Mitsuteru Akahoshi, Hitoshi Nakashima, Yosuke Tanaka, Tsutomu Kohsaka, Shuji Nagano, Eiichi Ohgami, Yojiro Arinobu, Kunihiro Yamaoka, Hiroaki Niino, Michiya Shinozaki, Hideki Hirakata, Takahiko Horiuchi, Takeshi Otsuka, and Yoshiyuki Niho	1644

Increased Number of Interleukin-10-Producing Cells in Systemic Lupus Erythematosus Patients and Their First-Degree Relatives and Spouses in Icelandic Multicase Families <i>Gerdur Gröndal, Helga Kristjansdóttir, Brynja Gunnlaugsdóttir, Alfred Arnason, Ingrid Lundberg, Lars Klareskog, and Kristjan Steinsson</i>	1649
A Role for the Polymorphism at Position 247 of the β_2 -Glycoprotein I Gene in the Generation of Anti- β_2 -Glycoprotein I Antibodies in the Antiphospholipid Syndrome <i>Naoto Hirose, Roxanne Williams, Alan R. Alberts, Richard A. Furie, Elliot K. Chartash, Rita I. Jain, Cristina Sison, Robert G. Lahita, Joan T. Merrill, Elena Cucurull, Azzudin E. Gharavi, Lisa R. Sammaritano, Jane E. Salmon, Shiori Hashimoto, Tetsuji Sawada, Charles C. Chu, Peter K. Gregersen, and Nicholas Chiorazzi</i>	1655
Tumor Necrosis Factor Receptor p55 Controls the Severity of Arthritis in Experimental <i>Yersinia Enterocolitica</i> Infection <i>Yi-Xue Zhao, Hongwei Zhang, Basil Chiu, Ursula Payne, and Robert D. Inman</i>	1662
Correlation of Increased Susceptibility to Apoptosis of CD4+ T Cells with Lymphocyte Activation and Activity of Disease in Patients with Primary Sjögren's Syndrome <i>Margit Zeher, Péter Szodoray, Edit Gyimesi, and Zsuzsa Szondy</i>	1673
Sugar Printing Rheumatic Diseases: A Potential Method for Disease Differentiation Using Immunoglobulin G Oligosaccharides <i>Mando Watson, Pauline M. Rudd, Martin Bland, Raymond A. Dwek, and John S. Axford</i>	1682
Clinical Science	
Treatment of Early Seropositive Rheumatoid Arthritis with Minocycline: Four-Year Followup of a Double-Blind, Placebo-Controlled Trial <i>James R. O'Dell, Gail Paulsen, Claire E. Haire, Kent Blakely, William Palmer, Steven Wees, P. James Eckhoff, Lynell W. Klassen, Melvin Churchill, Deborah Doud, Arthur Weaver, and Gerald F. Moore</i>	1691
Association of HLA Alleles and Clinical Features in Patients with Synovitis of Recent Onset <i>Hani S. El-Gabalawy, Raphaela Goldbach-Mansky, David Smith, II, Thurraya Arayssi, Sherri Bale, Pércio Gulko, Cheryl Yarboro, Ronald L. Wilder, John H. Klippel, and H. Ralph Schumacher, Jr.</i>	1696
The Relationship Between Synovitis and Bone Changes in Early Untreated Rheumatoid Arthritis: A Controlled Magnetic Resonance Imaging Study <i>Dennis McGonagle, Philip G. Conaghan, Philip O'Connor, Wayne Gibbon, Michael Green, Richard Wakefield, John Ridgway, and Paul Emery</i>	1706
How Much Disability in Rheumatoid Arthritis is Explained by Rheumatoid Arthritis? <i>Agustín Escalante and Inmaculada del Rincón</i>	1712
Outcomes of Total Hip and Knee Replacement: Preoperative Functional Status Predicts Outcomes at Six Months After Surgery <i>Paul R. Fortin, Ann E. Clarke, Lawrence Joseph, Matthew H. Liang, Michael Tanzer, Diane Ferland, Charlotte Phillips, Alison J. Partridge, Patrick Bélisle, Anne H. Fossel, Nizar Mahomed, Clement B. Sledge, and Jeffrey N. Katz</i>	1722
Heritabilities of Radiologic Osteoarthritis in Peripheral Joints and of Disc Degeneration of the Spine <i>Casper Bijkerk, Jeanine J. Houwing-Duistermaat, Hans A. Valkenburg, Ingrid Meulenbelt, Albert Hofman, Ferdinand C. Breedveld, Huibert A. P. Pols, Cornelia M. van Duijn, and P. Eline Slagboom</i>	1729
Prevention of Corticosteroid-Induced Osteoporosis: Results of a Patient Survey <i>Lenore M. Buckley, Mariella Marquez, Robert Feezor, David M. Ruffin, and Linda L. Benson</i>	1736
The Role of Vitamin D in Corticosteroid-Induced Osteoporosis: A Meta-Analytic Approach <i>Shreyasee Amin, Michael P. LaValley, Robert W. Simms, and David T. Felson</i>	1740
Granulocyte Colony-Stimulating Factor Treatment for Cyclophosphamide-Induced Severe Neutropenia in Wegener's Granulomatosis <i>Bernhard Hellmich, Armin Schnabel, and Wolfgang L. Gross</i>	1752
DNA Typing of Maternal HLA in Congenital Complete Heart Block: Comparison with Systemic Lupus Erythematosus and Primary Sjögren's Syndrome <i>Gualtiero Colombo, Antonio Brucato, Elena Coluccio, Silvana Compasso, Cristina Luzzana, Franco Franceschini, Marzia Quinzanini, and Raffaella Scorza</i>	1757
Malignant Lymphoma in Primary Sjögren's Syndrome: A Multicenter, Retrospective, Clinical Study by the European Concerted Action on Sjögren's Syndrome <i>Michalis Voulgarelis, Urania G. Dafni, David A. Isenberg, Haralampos M. Moutsopoulos, and the Members of the European Concerted Action on Sjögren's Syndrome</i>	1765
Case Report	
Hodgkin's Disease and B Cell Lymphoproliferation in Rheumatoid Arthritis Patients Treated with Methotrexate: A Kinetic Study of Lymph Node Changes <i>Guillaume Chevreil, Françoise Berger, Pierre Miossec, Michel Blanc, José Jeanneret, Claude Felman, and Jacques Tebib</i>	1773

Concise Communications

- Long-Term Remission with Allogenic Bone Marrow Transplantation in Systemic Lupus Erythematosus
Meir Gur-Lavi 1777
- Diagnosis of Whipple's Disease by Molecular Analysis of Synovial Fluid
U. Lange and J. Teichmann 1777

Letters

- Do Infliximab and Methotrexate Act Synergistically in the Treatment of Rheumatoid Arthritis?
Comment on the Article by Maini et al
Michael M. Rezaian 1779
- Reply
Ravinder N. Maini, Marc Feldmann, and Thomas Schaible 1779
- Blindedness in Clinical Trials of Therapies for Rheumatoid Arthritis: Comment on the Article by
Bresnihan et al
Wallace V. Epstein 1781
- Reply
*Barry Bresnihan, José Maria Alvaro-Gracia, Mark Cobby, Michael Doherty, Zlatko Domljan, Paul Emery,
George Nuki, Karel Pavelka, Rolf Rau, Blaz Rozman, Iain Watt, Bryan Williams, Roger Aitchison,
Dorothy McCabe, and Predrag Musikic* 1782
- Epstein-Barr Virus Infection May Be an Environmental Risk Factor for Systemic Lupus Erythematosus
in Children and Teenagers
John B. Harley and Judith A. James 1782
- Sequence Features of Monoclonal Antiphospholipid Antibodies: Comment on the Article by Ikematsu et al
Anisur Rahman, David Latchman, and David Isenberg 1783
- Clinical Images: Osseous and Subcutaneous Tophus
Fulton F. Velez, Juan-Manuel Anaya, and Jorge Delgado 1784
- ACR Announcements 15A

VOLUME 42

SEPTEMBER 1999

NO. 9

Special Articles

- Guidelines for Referral and Management of Systemic Lupus Erythematosus in Adults
American College of Rheumatology Ad Hoc Committee on Systemic Lupus Erythematosus Guidelines 1785
- Current Comment: Listening to the Patient: A Practical Guide to Self-Report Questionnaires in Clinical
Care
Frederick Wolfe and Theodore Pincus 1797
- Editorial: Lyme Arthritis: Lessons Learned and to be Learned
Leonard H. Sigal 1809

Clinical Science

- Association of Antibiotic Treatment-Resistant Lyme Arthritis with T Cell Responses to Dominant
Epitopes of Outer Surface Protein A of *Borrelia burgdorferi*
Jie Chen, Jodie A. Field, Lisa Glickstein, Philip J. Molloy, Brigitte T. Huber, and Allen C. Steere 1813
- Fcγ Receptor Polymorphisms in Wegener's Granulomatosis: Risk Factors for Disease Relapse
*Hilde M. Dijkstra, Ronald H. M. Scheepers, Wia W. Oost, Coen A. Stegeman, W. Ludo van der Pol,
Wim J. Sluiter, Cees G. M. Kallenberg, Jan G. J. van de Winkel, and Jan Willem Cohen Tervaert* 1823
- Overrepresentation of the Fcγ Receptor Type IIA R131/R131 Genotype in Caucasoid Systemic Lupus
Erythematosus Patients with Autoantibodies to C1q and Glomerulonephritis
*Peter Norsworthy, Efstathios Theodoridis, Marina Botto, Panagiotis Athanassiou, Huw Beynon,
Caroline Gordon, David Isenberg, Mark J. Walport, and Kevin A. Davies* 1828
- The Spectrum of Apoptotic Defects and Clinical Manifestations, Including Systemic Lupus
Erythematosus, in Humans with CD95 (Fas/APO-1) Mutations
*Akshay K. Vaishnav, Elias Toubi, Satomi Ohsako, Jorn Drappa, Sandra Buys, Jaime Estrada,
Anneliese Sitarz, Larry Zemel, Jia-Li Chu, and Keith B. Elkon* 1833
- Age-Specific Effects of Juvenile Rheumatoid Arthritis-Associated HLA Alleles
*Kevin J. Murray, Marta B. Moroldo, Patricia Donnelly, Sampath Prahalad, Murray H. Passo,
Edward H. Giannini, and David N. Glass* 1843
- Long-Term Course and Outcome of Functional Capacity in Rheumatoid Arthritis: The Effect of Disease
Activity and Radiologic Damage Over Time
*K. W. Drossaers-Bakker, M. de Buck, D. van Zeven, A. H. Zwinderman, F. C. Breedveld,
and J. M. W. Hazes* 1854

Serum Levels of Hyaluronan, Antigenic Keratan Sulfate, Matrix Metalloproteinase 3, and Tissue Inhibitor of Metalloproteinases 1 Change Predictably in Rheumatoid Arthritis Patients Who Have Begun Activity After a Night of Bed Rest <i>Daniel-Henri Manicourt, Pascal Poilvache, Adrien Nzeusseu, Anne van Egeren, Jean-Pierre Devogelaer, Mary Ellen Lenz, and Eugene J.-M. A. Thonar</i>	1861
Function and Health-Related Quality of Life: Results from a Randomized Controlled Trial of Leflunomide versus Methotrexate or Placebo in Patients with Active Rheumatoid Arthritis <i>Vibeke Strand, Peter Tugwell, Claire Bombardier, Andreas Maetzel, Bruce Crawford, Catherine Dorrier, Ann Thompson, and George Wells, on behalf of the Leflunomide Rheumatoid Arthritis Investigators Group</i>	1870
Global Statistical Tests for Comparing Multiple Outcomes in Rheumatoid Arthritis Trials <i>Barbara C. Tilley, Stanley R. Pillemer, Stephen P. Heyse, Shuhui Li, Daniel O. Clegg, Graciela S. Alarcón, and the MIRA Trial Group</i>	1879
Lower Prevalence of <i>Chlamydia pneumoniae</i> DNA Compared with <i>Chlamydia trachomatis</i> DNA in Synovial Tissue of Arthritis Patients <i>H. Ralph Schumacher, Jr., Hervé C. Gérard, Thurayya K. Arayssi, José A. Pando, Patrick J. Branigan, Diego L. Saaibi, and Alan P. Hudson</i>	1889
Ciprofloxacin Treatment Does Not Influence Course or Relapse Rate of Reactive Arthritis and Anterior Uveitis <i>Denis Wakefield, Peter McCluskey, Manju Verma, Karim Aziz, Barrie Gatus, and Gregory Carr</i>	1894
Hepatitis C Virus but Not GB Virus C/Hepatitis G Virus has a Role in Type II Cryoglobulinemia <i>Fanghua Liu, Glenn B. Knight, and Vincent Agnello</i>	1898
Basic Science	
Confirmation of Genetic Linkage Between Human Systemic Lupus Erythematosus and Chromosome 1q41 <i>Kathy L. Moser, Courtney Gray-McGuire, Jennifer Kelly, Neeraj Asundi, Hua Yu, Gail R. Bruner, Monique Mange, Robert Hogue, Barbara R. Neas, and John B. Harley</i>	1902
Diminished Levels of T Cell Receptor ζ Chains in Peripheral Blood T Lymphocytes from Patients with Systemic Lupus Erythematosus <i>Veronika Brundula, Liliana J. Rivas, Ana M. Blasini, Magdalena París, Susana Salazar, Ivan L. Stekman, and Martín A. Rodríguez</i>	1908
Differential Regulation of Rheumatoid Synovial Cell Interleukin-12 Production by Tumor Necrosis Factor α and CD40 Signals <i>Minetake Kitagawa, Hiroshi Mitsui, Hiroshi Nakamura, Shinichi Yoshino, Shunpei Miyakawa, Naoyuki Ochiai, Makoto Onobori, Hiroshi Suzuki, and Takayuki Sumida</i>	1917
Treatment with Sulfasalazine or Sulfapyridine, but Not 5-Aminosalicylic Acid, Inhibits Basic Fibroblast Growth Factor-Induced Endothelial Cell Chemotaxis <i>Michael V. Volin, Lisa A. Harlow, James M. Woods, Phillip L. Campbell, M. Asif Amin, Michihide Tokuhira, and Alisa E. Koch</i>	1927
Induction of α_1 -Antitrypsin Synthesis in Human Articular Chondrocytes by Interleukin-6-Type Cytokines: Evidence for a Local Acute-Phase Response in the Joint <i>Dagmar-Christiane Fischer, Barbara Siebertz, Eddy van de Leur, Karl-Heinz Schiwy-Bochat, Lutz Graeve, Peter-C. Heinrich, and Hans-Dieter Haubeck</i>	1936
Up-Regulation of MDC15 (Metargidin) Messenger RNA in Human Osteoarthritic Cartilage <i>Beate B. Böhm, Thomas Aigner, Angelika Gehrsitz, Carl P. Blobel, Joachim R. Kalden, and Harald Burkhardt</i>	1946
Evidence for Neurogenic Transmission Inducing Degenerative Cartilage Damage Distant from Local Inflammation <i>Elvire Decaris, Corinne Guingamp, Mireille Chat, Lionel Philippe, Joël-Paul Grillasca, Amr Abid, Alain Minn, Pierre Gillet, Patrick Netter, and Bernard Terlain</i>	1951
Association Analysis Between the MIC-A and HLA-B Alleles in Japanese Patients with Behçet's Disease <i>Nobuhisa Mizuki, Masao Ota, Yoshihiko Katsuyama, Kazuro Yabuki, Hitoshi Ando, Kaori Goto, Satoshi Nakamura, Seiamak Bahram, Shigeaki Ohno, and Hidetoshi Inoko</i>	1961
Th1 Polarization of the Immune Response in Behçet's Disease: A Putative Pathogenetic Role of Interleukin-12 <i>Maria Antonia Frassanito, Rosanna Dammacco, Paola Cafforio, and Franco Dammacco</i>	1967
Modulation at Multiple Anchor Positions of the Peptide Specificity of HLA-B27 Subtypes Differentially Associated with Ankylosing Spondylitis <i>José R. Lamas, Alberto Paradela, Fernando Roncal, and José A. López de Castro</i>	1975

Differential Mechanisms of Inorganic Pyrophosphate Production by Plasma Cell Membrane Glycoprotein-1 and B10 in Chondrocytes <i>Kristen Johnson, Sucheta Vaingankar, Ying Chen, Allison Moffa, Mary B. Goldring, Kimihiko Sano, Piao Jin-Hua, Adnan Sali, James Goding, and Robert Terkeltaub</i>	1986
Errata	1997
Errors in Articles by McGonagle et al (Arthritis Rheum, June 1999), Wilson et al (Arthritis Rheum, July 1999), and Del Rincón and Escalante (Arthritis Rheum, July 1999)	
Case Reports	
The Relationship Between Pityriasis Rubra Pilaris and Inflammatory Arthritis: Case Report and Response of the Arthritis to Anti-Tumor Necrosis Factor Immunotherapy <i>Philip G. Conaghan, Sabine Sommer, Dennis McGonagle, Douglas Veale, Herman Waldmann, Geoffrey Hale, Mark Goodfield, Paul Emery, and John Isaacs</i>	1998
Hypertrophic Osteoarthropathy Can Indicate Recurrence of Whipple's Disease <i>Isabelle Marie, Hervé Levesque, Marc-Henri Levade, Nicole Cailleux, Frédéric Lecomte, Arnaud François, Josette Métayer, Eric Lerebours, and Hubert Courtois</i>	2002
Mixed Cryoglobulinemia Secondary to Visceral Leishmaniasis <i>Milvia Casato, Francesco G. De Rosa, Leopoldo P. Pucillo, Ignazio Ilardi, Bruno Di Vico, Lelio R. Zorzin, Maria Laura Sorgi, Pamela Fiaschetti, Rossella Coviello, Bruno Laganà, and Massimo Fiorilli</i>	2007
Clinical Image	
Acute Gout in a Young Man with Osteochondromatosis <i>Mir M. Ali and Catherine Meyer</i>	2011
Radiologic Vignette	
Fluorosis and Osteomalacia <i>P. D. W. Kiely, J. Chow, J. B. Eastwood, and B. E. Bourke</i>	2012
Concise Communications	
Increased Expression of Multidrug Resistance of P-Glycoprotein on Th1 Cells Correlates with Drug Resistance in Rheumatoid Arthritis <i>Kazuo Yudoh, Hiroaki Matsuno, Fujio Nakazawa, Tamon Yonezawa, and Tomoatsu Kimura</i>	2014
The HLA-DRB1 QR/KRAA Sequence Cannot Alone Explain the Rheumatoid Arthritis Susceptibility in the Corsican Population <i>P. Cucchi-Mouillot, J. P. Amoros, B. Genetet, and D. Haras</i>	2015
Single Nucleotide Polymorphic Haplotypes of the Interleukin-10 5' Flanking Region are Not Associated with Renal Disease or Serology in Caucasian Patients with Systemic Lupus Erythematosus <i>Esther Crawley, Patricia Woo, and David A. Isenberg</i>	2017
Letters	
Intravenous Pulse versus Oral Administration of Cyclophosphamide: Comment on the Article by Haubitz et al <i>Caroline O. S. Savage, and David R. W. Jayne</i>	2019
Reply <i>Marion Haubitz and Reinhard Brunkhorst</i>	2020
Sensitivity and Specificity of Tests for Autoantibodies: Comment on the Article by Tan et al <i>A. S. Russell</i>	2021
Reply <i>Eng M. Tan</i>	2021
What Constitutes a Mortality Study? Comment on the Article by Uramoto et al <i>Daniel J. Wallace</i>	2021
Reply <i>Sherine E. Gabriel</i>	2022
ACR Announcements	25A

VOLUME 42

SEPTEMBER SUPPLEMENT 1999

NO. 9

Annual Scientific Meetings of the American College of Rheumatology and the Association of Rheumatology Health Professionals

S1

VOLUME 42

OCTOBER 1999

NO. 10

Special Articles

Editorial: Complement Deficiency States, Disease Susceptibility, and Infection Risk in Systemic Lupus Erythematosus

V. Michael Holers

2023

Review: Neuroimaging in Neuropsychiatric Systemic Lupus Erythematosus <i>Wilmer L. Sibbitt, Jr., Randy R. Sibbitt, and William M. Brooks</i>	2026
Basic Science	
Low Secretion of Tumor Necrosis Factor α , But No Other Th1 or Th2 Cytokines, by Peripheral Blood Mononuclear Cells Correlates with Chronicity in Reactive Arthritis <i>Jürgen Braun, Zhinan Yin, Inge Spiller, Stefanie Siegert, Martin Rudwaleit, Lanzhen Liu, Andreas Radbruch, and Joachim Sieper</i>	2039
Modulation of Peripheral Blood Mononuclear Cell Activation Status During <i>Salmonella</i> -Triggered Reactive Arthritis <i>Juha Kirveskari, Qiushui He, Tim Holmström, Marjatta Leirisalo-Repo, Maarit Wuorela, Jussi Mertsola, and Kaisa Granfors</i>	2045
V2 Regions of 16S Ribosomal RNA Used as a Molecular Marker for the Species Identification of Streptococci in Peripheral Blood and Synovial Fluid from Patients with Psoriatic Arthritis <i>Qingmin Wang, Frank B. Vasey, J. Paul Mahfood, Joanne Valeriano, Keith S. Kanik, Burt E. Anderson, and Paul H. Bridgeford</i>	2055
A New Spin on an Old Model: In Vivo Evaluation of Disease Progression by Magnetic Resonance Imaging with Respect to Standard Inflammatory Parameters and Histopathology in the Adjuvant Arthritic Rat <i>Peer B. Jacobson, Sheryl J. Morgan, Denise M. Wilcox, Phong Nguyen, Christine A. Ratajczak, Richard P. Carlson, Richard R. Harris, and Merrill Nuss</i>	2060
Cleavage of Aggrecan at the Asn ³⁴¹ -Phe ³⁴² Site Coincides with the Initiation of Collagen Damage in Murine Antigen-Induced Arthritis: A Pivotal Role for Stromelysin 1 in Matrix Metalloproteinase Activity <i>Joyce van Meurs, Peter van Lent, Reinout Stoop, Astrid Holthuysen, Irwin Singer, Ellen Bayne, John Mudgett, Robin Poole, Clark Billinghamurst, Peter van der Kraan, Pieter Buma, and Wim van den Berg</i>	2074
Enhanced T Cell Proliferative Response to Type II Collagen and Synthetic Peptide CII (255-274) in Patients with Rheumatoid Arthritis <i>Ho-Youn Kim, Wan-Uk Kim, Mi-La Cho, Suk Kyeong Lee, Jeehee Youn, Sung-Il Kim, Wan-Hee Yoo, Jae-Ho Park, Jun-Ki Min, Sang-Heon Lee, Sung-Hwan Park, and Chul-Soo Cho</i>	2085
Cartilage Protection by Nitric Oxide Synthase Inhibitors After Intraarticular Injection of Interleukin-1 β in Rats <i>Nathalie Presle, Christine Cippolletta, Jean-Yves Jouzeau, Amr Abid, Patrick Netter, and Bernard Terlain</i> ...	2094
Estrogen Replacement Therapy Modulation of the Insulin-Like Growth Factor System in Monkey Knee Joints <i>Janet K. Fernihough, Renee S. Richmond, Cathy S. Carlson, Tom Cherpes, Jeffrey M. P. Holly, and Richard F. Loeser</i>	2103
Abnormal Regulation of Urokinase Plasminogen Activator by Insulin-Like Growth Factor 1 in Human Osteoarthritic Subchondral Osteoblasts <i>George Hilal, Johanne Martel-Pelletier, Jean-Pierre Pelletier, Nicolas Duval, and Daniel Lajeunesse</i>	2112
Nitric Oxide Production and Apoptosis in Cells of the Meniscus During Experimental Osteoarthritis <i>Sanhiro Hashimoto, Kenji Takahashi, Robert L. Ochs, Richard D. Coutts, David Amiel, and Martin Lotz</i>	2123
An IgG Antiprotease Antibody Enhances Prothrombin Binding to Damaged Endothelial Cells and Shortens Plasma Coagulation Times <i>Yan Zhao, Robert Rumold, Min Zhu, Daobin Zhou, Alaa E. Ahmed, Dzung T. Le, Bevra H. Hahn, Virgil L. Woods, Jr., and Pojen P. Chen</i>	2132
Exclusion of the Gene for Human Cartilage Intermediate Layer Protein in Currently Mapped Calcium Pyrophosphate Dihydrate Deposition Syndromes <i>R. Catrinel Marinescu, Kristin Nyce, Lourdes Serrano de la Peña, Joan Overhauser, and Charlene J. Williams</i>	2139
Clinical Science	
Mannose-Binding Lectin Polymorphisms and Susceptibility to Infection in Systemic Lupus Erythematosus <i>Peter Garred, Hans O. Madsen, Poul Halberg, Jørgen Petersen, Gitte Kronborg, Arne Svejgaard, Vagn Andersen, and Søren Jacobsen</i>	2145
The Prosorba Column for Treatment of Refractory Rheumatoid Arthritis: A Randomized, Double-Blind, Sham-Controlled Trial <i>David T. Felson, Michael P. LaValley, Andrew R. Baldassare, Joel A. Block, Jacques R. Caldwell, Grant W. Cannon, Chad Deal, Stephen Evans, Roy Fleischmann, R. Michael Gendreau, E. Robert Harris, Eric L. Matteson, Sanford H. Roth, H. Ralph Schumacher, Michael H. Weisman, and Daniel E. Furst</i>	2153
Comparison of Two Schedules for Administering Oral Low-Dose Methotrexate (Weekly Versus Every-Other-Week) in Patients with Rheumatoid Arthritis in Remission: A Twenty-Four-Week, Single-Blind, Randomized Study <i>Magdalena Luis, César Pacheco-Tena, Jorge Cazarín-Barrientos, Leticia Lino-Pérez, María Victoria Goycochea, Janitzia Vázquez-Mellado, and Rubén Burgos-Vargas</i>	2160

Treatment with Monoclonal Anti-Tumor Necrosis Factor α Antibody Results in an Accumulation of Th1 CD4+ T Cells in the Peripheral Blood of Patients with Rheumatoid Arthritis <i>Madelon M. Maurice, Wiebo L. van der Graaff, Angela Leow, Ferdinand C. Breedveld, René A. W. van Lier, and Cornelis L. Verweij</i>	2166
The Influence of HLA-DRB1 Alleles and Rheumatoid Factor on Disease Outcome in an Inception Cohort of Patients with Early Inflammatory Arthritis <i>Beverley Harrison, Wendy Thomson, Deborah Symmons, Bill Ollier, Nicola Wiles, Tony Payton, Elizabeth Barrett, and Alan Silman</i>	2174
Persistence of Mild, Early Inflammatory Arthritis: The Importance of Disease Duration, Rheumatoid Factor, and the Shared Epitope <i>Michael Green, Helena Marzo-Ortega, Dennis McGonagle, Richard Wakefield, Susanna Proudman, Philip Conaghan, Jimmy Gooi, and Paul Emery</i>	2184
Objective and Subjective Sleep Disturbances in Patients with Systemic Lupus Erythematosus <i>Matilde Valencia-Flores, Montserrat Resendiz, Violeta A. Castaño, Victoria Santiago, Rosa M. Campos, Sayonara Sandino, Xavier Valencia, Jorge Alcocer, Guillermo Garcia Ramos, and Donald L. Bliwise</i>	2189
Poly(ADP-Ribose) Polymerase Alleles in French Caucasians are Associated Neither with Lupus Nor with Primary Antiphospholipid Syndrome <i>O. Delrieu, M. Michel, C. Francès, O. Meyer, C. Michel, F. Wittke, I. Crassard, J. F. Bach, E. Tournier-Lasserre, and J. C. Piette for the GRAID Research Group</i>	2194
Detection of Bacterial DNA in Serial Synovial Samples Obtained During Antibiotic Treatment from Patients with Septic Arthritis <i>Ineke M. van der Heijden, Bert Wilbrink, Arianne E. M. Vije, Leo M. Schouls, Ferdinand C. Breedveld, and Paul P. Tak</i>	2198
Extrahepatic Manifestations of Chronic Hepatitis C <i>Patrice Cacoub, Thierry Poynard, Pascale Ghillani, Frederic Charlotte, Martine Olivi, Jean Charles Piette, and Pierre Opolon, for the MULTIVIRC Group</i>	2204
Development of Validated Disease Activity and Damage Indices for the Juvenile Idiopathic Inflammatory Myopathies. II. The Childhood Myositis Assessment Scale (CMAS): A Quantitative Tool for the Evaluation of Muscle Function <i>Daniel J. Lovell, Carol B. Lindsley, Robert M. Rennebohm, Susan H. Ballinger, Suzanne L. Bowyer, Edward H. Giannini, Jeanne E. Hicks, Joseph E. Levinson, Richard Mier, Lauren M. Pachman, Murray H. Passo, Maria D. Perez, Ann M. Reed, Kenneth N. Schikler, Michael Smith, Lawrence S. Zemel, and Lisa G. Rider, in Cooperation with the Juvenile Dermatomyositis Disease Activity Collaborative Study Group</i>	2213
Toward a Multidimensional Health Assessment Questionnaire (MDHAQ): Assessment of Advanced Activities of Daily Living and Psychological Status in the Patient-Friendly Health Assessment Questionnaire Format <i>Theodore Pincus, Christopher Swearingen, and Frederick Wolfe</i>	2220
Sonography and Magnetic Resonance Imaging Equivalent for the Assessment of Full-Thickness Rotator Cuff Tears <i>Wijnand A. A. Swen, Johannes W. G. Jacobs, Paul R. Algra, Radu A. Manoliu, Jan Rijkman, Willem J. Willems, and Johannes W. J. Bijlsma</i>	2231
Erratum	
Error in Letter by Bresnihan et al (Arthritis Rheum, August 1999).....	2238
Case Reports	
Clinical and Experimental Evidence for Persistent <i>Yersinia</i> Infection in Reactive Arthritis <i>J. S. Hill Gaston, Charles Cox, and Kaisa Granfors</i>	2239
Distinguishing Primary Angiitis of the Central Nervous System from Cerebral Autosomal Dominant Arteriopathy with Subcortical Infarcts and Leukoencephalopathy: The Importance of Family History <i>Eric E. Williamson, Felix E. Chukwudelunzu, James F. Meschia, Robert J. Witte, Dennis W. Dickson, and Marc D. Cohen</i>	2243
Concise Communications	
Shrinking Lung in Primary Sjögren's Syndrome <i>Antonio Tavoni, Claudio Vitali, Giovanna Cirigliano, Sabrina Frigelli, Giulia Stampacchia, and Stefano Bombardieri</i>	2249
Antiphospholipid Antibodies in Patients with Wegener's Granulomatosis and Polyarteritis Nodosa <i>Karen E. Hansen, Karen D. Moore, Thomas L. Ortel, and Nancy B. Allen</i>	2250
Long-Term Followup of Naproxen-Induced Pseudoporphyria in Juvenile Rheumatoid Arthritis <i>S. Mehta and B. Lang</i>	2252
Letters	
Leukocytapheresis and Rheumatoid Arthritis: Comment on the Article by Hidaka et al <i>Daniel J. Wallace</i>	2255

Reply	
<i>Toshihiko Hidaka, Kimihiro Suzuki, and Fumitaka Ohsuzu</i>	2255
Association Between the Inflammatory Response and the Risk of Developing Irreversible Cranial Ischemic Complications: Comment on the Article by Cid et al and the Letter by Nesher and Sonnenblick	
<i>Eric Liozon, Marie Odile Jauberteau, Véronique Loustaud, and Elisabeth Vidal</i>	2256
Reply	
<i>Maria C. Cid, Carme Font, Alejandro de la Sierra, Blanca Coll-Vinent, Alfons López-Soto, Alvaro Urbano-Márquez, and Josep M. Grau</i>	2257
Reply	
<i>Gideon Nesher</i>	2258
Giant Cell Arteritis Disease Patterns: Comment on the Article by Brack et al	
<i>Alan B. Marks</i>	2258
Reply	
<i>Cornelia M. Weyand and Jörg J. Goronzy</i>	2258
Ovarian Failure with Thalidomide Treatment in Complex Aphthosis: Comment on the Concise Communication by Ordi et al	
<i>A. Gompel, C. Frances, J. C. Piette, A. S. Blanc, F. Cordoliani, and A.-M. Piette</i>	2259
Reply	
<i>Jose Ordi, Fina Cortes, Eva Balada, Montse Mauri, and Miguel Vilardell</i>	2260
ACR Announcements	23A

VOLUME 42

NOVEMBER 1999

NO. 11

Special Articles

Review: Juvenile Rheumatoid Arthritis as a Complex Genetic Trait	
<i>David N. Glass and Edward H. Giannini</i>	2261
Editorial: High-Dose Immunosuppressive Therapy for Rheumatoid Arthritis: Some Answers, More Questions	
<i>Peter A. McSweeney, Daniel E. Furst, and Sterling G. West</i>	2269

Clinical Science

Intensified-Dose (4 gm/m ²) Cyclophosphamide and Granulocyte Colony-Stimulating Factor Administration for Hematopoietic Stem Cell Mobilization in Refractory Rheumatoid Arthritis	
<i>Maxime Breban, Maxime Dougados, Françoise Picard, Simona Zompi, Jean-Pierre Marolleau, Catherine Bocaccio, Fhrad Heshmati, Maryse Mezieres, François Dreyfus, and Didier Bouscary</i>	2275
Autologous Hematopoietic Stem Cell Transplantation in Refractory Rheumatoid Arthritis: Sustained Response in Two of Four Patients	
<i>Richard K. Burt, Constantinos Georganas, Jim Schroeder, Ann Traynor, Jakub Stefka, Friedrich Schuening, Frank Graziano, Shin Mineishi, Mary Brush, Maryanne Fishman, Colleen Welles, Steve Rosen, and Richard Pope</i>	2281
A Phase I/II Dose Escalation Study of Intensified Cyclophosphamide and Autologous Blood Stem Cell Rescue in Severe, Active Rheumatoid Arthritis	
<i>J. A. Snowden, J. C. Biggs, S. T. Milliken, A. Fuller, and P. M. Brooks</i>	2286
Cost Effectiveness of Replacing Diclofenac with a Fixed Combination of Misoprostol and Diclofenac in Patients With Rheumatoid Arthritis	
<i>Ivar Sønbo Kristiansen, Tore Kristian Kvien, and Erik Nord</i>	2293
Evaluation of Pannus and Vascularization of the Metacarpophalangeal and Proximal Interphalangeal Joints in Rheumatoid Arthritis by High-Resolution Ultrasound (Multidimensional Linear Array)	
<i>Matthias Hau, Hendrik Schultz, Hans-Peter Tony, Marc Keberle, Roland Jahns, Rainer Haerten, and Manfred Jenett</i>	2303
Risedronate Therapy Prevents Corticosteroid-Induced Bone Loss: A Twelve-Month, Multicenter, Randomized, Double-Blind, Placebo-Controlled, Parallel-Group Study	
<i>Stanley Cohen, Robert M. Levy, Michael Keller, Eugene Boling, Ronald D. Emkey, Maria Greenwald, Thomas M. Zizic, Stanley Wallach, Kathryn L. Sewell, Barbara P. Lukert, Douglas W. Axelrod, and Arkadi A. Chines</i>	2309
Significant Loss of Bone Mass in Patients with Early, Active Ankylosing Spondylitis: A Followup Study	
<i>J. Gratacós, A. Collado, F. Pons, M. Osaba, R. Sanmartí, M. Roqué, M. Larrosa, and J. Muñoz-Gómez</i> ...	2319
Comparison of Sulfasalazine and Placebo for the Treatment of Axial and Peripheral Articular Manifestations of the Seronegative Spondylarthropathies: A Department of Veterans Affairs Cooperative Study	
<i>Daniel O. Clegg, Domenic J. Reda, and Mazen Abdellatif</i>	2325

Prevention of Leg Length Discrepancy in Young Children with Pauciarticular Juvenile Rheumatoid Arthritis by Treatment with Intraarticular Steroids <i>David D. Sherry, Leonard D. Stein, Ann M. Reed, Laura E. Schanberg, and Deborah W. Kredich</i>	2330
Comparison of Treatment with Fluorinated Glucocorticoids to the Natural History of Autoantibody-Associated Congenital Heart Block: Retrospective Review of the Research Registry for Neonatal Lupus <i>Susan Saleeb, Joshua Copel, Deborah Friedman, and Jill P. Buyon</i>	2335
Close Relationship Between Systemic Lupus Erythematosus and Thrombotic Thrombocytopenic Purpura in Childhood <i>Hermine I. Brunner, Melvin Freedman, and Earl D. Silverman</i>	2346
Serum Cartilage Oligomeric Matrix Protein Reflects Osteoarthritis Presence and Severity: The Johnston County Osteoarthritis Project <i>Amy G. Clark, Joanne M. Jordan, Vladimir Vilim, Jordan B. Renner, Anca D. Dragomir, Gheorghe Luta, and Virginia B. Kraus</i>	2356
Validity of a Vasculitis Activity Index for Systemic Necrotizing Vasculitis <i>Quinn E. Whiting-O'Keefe, John H. Stone, and David B. Hellmann</i>	2365
Correlates of the Disability Index of the Health Assessment Questionnaire: A Measure of Functional Impairment in Systemic Sclerosis <i>Philip J. Clements, Weng Kee Wong, Eric L. Hurwitz, Daniel E. Furst, Maureen Mayes, Barbara White, Fredrick Wigley, Michael Weisman, Walter Barr, Larry Moreland, Thomas A. Medsger, Jr., Virginia Steen, Richard Martin, David Collier, Arthur Weinstein, Edward Lally, John Varga, Steven Weiner, Brian Andrews, Micha Abeles, and James Seibold</i>	2372
Basic Science	
Type II Collagen Degradation in Spontaneous Osteoarthritis in C57Bl/6 and BALB/c Mice <i>Reinout Stoop, Peter M. van der Kraan, Pieter Buma, Anthony P. Hollander, R. Clark Billingham, A. Robin Poole, and Wim B. van den Berg</i>	2381
Degradation of Cartilage Type II Collagen Precedes the Onset of Osteoarthritis Following Anterior Cruciate Ligament Rupture <i>Jo S. Price, Simon H. Till, Derek R. Bickerstaff, Mike T. Bayliss, and Anthony P. Hollander</i>	2390
Mitogen-Activated Protein Kinase and Nuclear Factor κ B Together Regulate Interleukin-17-Induced Nitric Oxide Production in Human Osteoarthritic Chondrocytes: Possible Role of Transactivating Factor Mitogen-Activated Protein Kinase-Activated Protein Kinase (MAPKAPK) <i>Johanne Martel-Pelletier, François Mineau, Dragan Jovanovic, John A. Di Battista, and Jean-Pierre Pelletier</i>	2399
<i>Staphylococcus Aureus</i> Stimulates Inducible Nitric Oxide Synthase in Articular Cartilage <i>Daniel Jang, Riley J. Williams, Min Xia Wang, Ai Qun Wei, and George A. C. Murrell</i>	2410
Evidence for Neural Regulation of Inflammatory Synovial Cell Functions by Secreting Calcitonin Gene-Related Peptide and Vasoactive Intestinal Peptide in Patients with Rheumatoid Arthritis <i>Yuko Takeba, Noboru Suzuki, Atsushi Kaneko, Tomiaki Asai, and Tsuyoshi Sakane</i>	2418
Expression of the Thioredoxin-Thioredoxin Reductase System in the Inflamed Joints of Patients with Rheumatoid Arthritis <i>Madelon M. Maurice, Hajime Nakamura, Sonja Gringhuis, Takashi Okamoto, Shinichi Yoshida, Frank Kullmann, Sandra Lechner, Ellen A. M. van der Voort, Angela Leow, Johannes Versendaal, Ulf Muller-Ladner, Junji Yodoi, Paul P. Tak, Ferdinand C. Breedveld, and Cornelis L. Verweij</i>	2430
Regulation of Synovial Cell Apoptosis by Proteasome Inhibitor <i>Atsushi Kawakami, Tomoki Nakashima, Hideaki Sakai, Ayumi Hida, Satoshi Urayama, Satoshi Yamasaki, Hideki Nakamura, Hiroaki Ida, Yasufumi Ichinose, Takahiko Aoyagi, Itaru Furuichi, Munetoshi Nakashima, Kiyoshi Migita, Yojiro Kawabe, and Katsumi Eguchi</i>	2440
Termination of Human T Cell Tolerance to Histones by Presentation of Histones and Polyomavirus T Antigen Provided That T Antigen is Complexed with Nucleosomes <i>Kristin Andreassen, Ugo Moens, Hans Nossent, Tony N. Marion, and Ole Petter Rekvig</i>	2449
A Chimeric Antibody with the Human γ 1 Constant Region as a Putative Standard for Assays to Detect IgG β ₂ -Glycoprotein I-Dependent Anticardiolipin and Anti- β ₂ -Glycoprotein I Antibodies <i>Kenji Ichikawa, Akito Tsutsumi, Tatsuya Atsumi, Eiji Matsuura, Seiichi Kobayashi, Graham R. V. Hughes, Munther A. Khamashta, and Takao Koike</i>	2461
Immunoglobulin Variable Genes and Epitope Recognition of Human Monoclonal Anti-Ro 52-kd in Primary Sjögren's Syndrome <i>Kamal E. E. Elagib, Pia Tengnér, Michael Levi, Roland Jonsson, Keith M. Thompson, Jacob B. Natvig, and Marie Wahren-Herlenius</i>	2471

Possible Association of Fibromyalgia with a Polymorphism in the Serotonin Transporter Gene Regulatory Region <i>Martin Offenbaecher, Brigitta Bondy, Silvia de Jonge, Karin Glatzeder, Marc Krüger, Peter Shoen, and Manfred Ackenheil</i>	2482
Concise Communication	
Hepatitis C Virus Infection, Sjögren's Syndrome, and Non-Hodgkin's Lymphoma <i>Albert Selva-O'Callaghan, Dolores Rodriguez-Pardo, Lluís Sanchez-Sitjes, Laia Matas-Pericas, Roser Solans-Laqué, Josep Angel Bosch-Gil, and Miguel Vilardell-Tarrés</i>	2489
Letters	
Endothelial Apoptosis in Scleroderma: Comment on the Article by Black et al <i>Tihomir Štefanec</i>	2491
Lipoprotein(a) Levels and Atherosclerosis in Rheumatoid Arthritis: Comment on the Article by Asanuma et al <i>M. J. Banks and G. D. Kitas</i>	2491
Reply <i>Yu Asanuma and Shinichi Kawai</i>	2492
Absence of Human Retrovirus 5 in French Patients with Rheumatoid Arthritis: Comment on the Article by Griffiths et al <i>Philippe Gaudin, François Moutet, Philip W. Tuke, and Jeremy A. Garson</i>	2492
Reply <i>David J. Griffiths and Patrick J. W. Venables</i>	2493
Specificity of Antineutrophil Cytoplasmic Antibody: Comment on the Article by Choi et al <i>Sueli B. Maciel, Morton A. Scheinberg, and Vijay Kumar</i>	2494
Comparison of Dutch and US Patients' Perceptions of the Effects of Wegener's Granulomatosis on Health, Function, Income, and Interpersonal Relationships: Comment on the Article by Hoffman et al <i>M. M. Boomsma, C. A. Stegeman, and J. W. Cohen Tervaert</i>	2495
Reply <i>Gary S. Hoffman and Kent Kwok</i>	2496
Reporting of Bone Mineral Density Values as T-Scores or Z-Scores: Comment on the Article by Sowers et al <i>John A. Shepherd and Sven Prevrhal</i>	2497
Reply <i>MaryFran Sowers</i>	2497
Rarity of Reported Cases of Vasculitis in Africa: Comment on the Article by Bae et al <i>A. O. Adebajo and R. A. Watts</i>	2497
Clinical Images	
Radiographic Progression of Rheumatoid Arthritis Over Twenty Years <i>Inmaculada del Rincón and José F. Roldán</i>	2498
ACR Announcements	23A

VOLUME 42

DECEMBER 1999

NO. 12

Special Articles

Review: The Immunologic Homunculus in Rheumatoid Arthritis <i>Stefan Bläß, Joachim-Michael Engel, and Gerd-Rüdiger Burmester</i>	2499
Review: Cryoglobulinemic Vasculitis <i>P. Lamprecht, A. Gause, and W. L. Gross</i>	2507

Basic Science

The Arthritogenic T Cell Receptor and Its Ligand in a Model of Spontaneous Arthritis <i>Sara Mangialaio, Hong Ji, Anne-Sophie Korganow, Valérie Kouskoff, Christophe Benoist, and Diane Mathis</i>	2517
Identification of Multiple Loci Linked to Inflammation and Autoantibody Production by a Genome Scan of a Murine Model of Rheumatoid Arthritis <i>Jeffrey M. Otto, Gabriella Cs-Szabó, Jodi Gallagher, Sonja Velins, Katalin Mikecz, Edit I. Buzás, Jill T. Enders, Yefu Li, Björn R. Olsen, and Tibor T. Glant</i>	2524
Suppressed Severity of Collagen-Induced Arthritis by In Vivo Transfection of Nuclear Factor κ B Decoy Oligodeoxynucleotides as a Gene Therapy <i>Tetsuya Tomita, Eiji Takeuchi, Naruya Tomita, Ryuichi Morishita, Motoharu Kaneko, Kei Yamamoto, Takanobu Nakase, Hiroshi Seki, Kazuyo Kato, Yasufumi Kaneda, and Takahiro Ochi</i>	2532
Oncostatin M Induces Leukocyte Infiltration and Cartilage Proteoglycan Degradation In Vivo in Goat Joints <i>M. C. Bell, G. J. Carroll, H. M. Chapman, J. N. Mills, and Wang Hui</i>	2543

Taurine Chloramine Inhibition of Cell Proliferation and Cytokine Production by Rheumatoid Arthritis Fibroblast-Like Synoviocytes	
<i>Ewa Kontny, Agnieszka Grabowska, Jacek Kowalczewski, Mariola Kurowska, Iwona Janicka, Janusz Marcinkiewicz, and Włodzimierz Maśliński</i>	2552
Fluoxetine and Amitriptyline Inhibit Nitric Oxide, Prostaglandin E₂, and Hyaluronic Acid Production in Human Synovial Cells and Synovial Tissue Cultures	
<i>Ilana Yaron, Idit Shirazi, Rachel Judovich, David Levartovsky, Dan Caspi, and Michael Yaron</i>	2561
Antibodies to Type II Collagen and HLA Disease Susceptibility Markers in Rheumatoid Arthritis	
<i>Andrew D. Cook, Alex Stockman, Caroline A. Brand, Brian D. Tait, Ian R. Mackay, Kenneth D. Muir, Claude C. A. Bernard, and Merrill J. Rowley</i>	2569
Identification of a Genetic Risk Factor for Systemic Juvenile Rheumatoid Arthritis in the 5'-Flanking Region of the TNFα Gene and HLA Genes	
<i>Yukiji Date, Naoko Seki, Shintaro Kamizono, Takafumi Higuchi, Tomoshige Hirata, Koichiro Miyata, Masahiko Ohkuni, Osamu Tatsuzawa, Shumpei Yokota, Kunitaka Joo, Kohji Ueda, Takehiko Sasazuki, Akinori Kimura, Kyogo Itoh, and Hirohisa Kato</i>	2577
Linked Production of Antibodies to Mammalian DNA and to Human Polyomavirus Large T Antigen: Fingerprints of a Common Molecular and Cellular Process?	
<i>Geir Bredholt, Eli Olaussen, Ugo Moens, and Ole Petter Rekvig</i>	2583
B Cells Lacking RP105, A Novel B Cell Antigen, in Systemic Lupus Erythematosus	
<i>Syuichi Koarada, Yoshifumi Tada, Osamu Ushiyama, Fumitaka Morito, Noriaki Suzuki, Akihide Ohta, Kensuke Miyake, Masao Kimoto, and Kohei Nagasawa</i>	2593
Single-Nucleotide Polymorphisms of T Cell Receptor ζ Chain in Patients with Systemic Lupus Erythematosus	
<i>Jianming Wu, Jeffrey C. Edberg, Andrew W. Gibson, Betty Tsao, and Robert P. Kimberly</i>	2601
Autoantibodies Against Malondialdehyde-Modified Lipoprotein(a) in Antiphospholipid Syndrome	
<i>Fredeswinda I. Romero, Tatsuya Atsumi, Francisco J. Tinahones, Juan M. Gómez-Zumaquero, Olga Amengual, Munther A. Khamashta, and Graham R. V. Hughes</i>	2606
Association of the Glutathione S-Transferase M1 Homozygous Null Genotype with Susceptibility to Sjögren's Syndrome in Japanese Individuals	
<i>Akio Morinobu, Sugayo Kanagawa, Masahiro Koshiba, Susumu Sugai, and Shunichi Kumagai</i>	2612
Genetic Basis of Autoimmune Sialadenitis in MRL/lpr Lupus-Prone Mice: Additive and Hierarchical Properties of Polygenic Inheritance	
<i>Miyuki Nishihara, Miho Terada, Junji Kamogawa, Yuichi Ohashi, Shiro Mori, Shuichi Nakatsuru, Yusuke Nakamura, and Masato Nose</i>	2616
YKL-40 in Giant Cells and Macrophages from Patients with Giant Cell Arteritis	
<i>Julia S. Johansen, Bo Baslund, Charly Garbarsch, Michael Hansen, Michael Stoltenberg, Ib Lorenzen, and Paul A. Price</i>	2624
Chondroprogenitor Cells of Synovial Tissue	
<i>Keita Nishimura, Luis A. Solchaga, Arnold I. Caplan, Jung U. Yoo, Victor M. Goldberg, and Brian Johnstone</i>	2631
Errata	
Incorrect Listing of Pediatric Rheumatology Abstract Reviewers and Error in Author Index, September 1999 Abstract Supplement	2637
Clinical Science	
Systemic Sclerosis-Associated Pulmonary Hypertension: Short- and Long-Term Effects of Epoprostenol (Prostacyclin)	
<i>Elizabeth S. Klings, Nicholas S. Hill, Michael H. Jeong, Robert W. Simms, Joseph H. Korn, and Harrison W. Farber</i>	2638
Losartan Therapy for Raynaud's Phenomenon and Scleroderma: Clinical and Biochemical Findings in a Fifteen-Week, Randomized, Parallel-Group, Controlled Trial	
<i>Magdalena Dziadzio, Christopher P. Denton, Roy Smith, Kevin Howell, Andrew Blann, Emma Bowers, and Carol M. Black</i>	2646
Autoantibodies to the Extracellular Matrix Microfibrillar Protein, Fibrillin 1, in Patients with Localized Scleroderma	
<i>Frank C. Arnett, Filemon K. Tan, Yosef Uziel, Ronald M. Laxer, Bernice R. Krafchik, Stephen Antohi, and Constantin Bona</i>	2656
Prediction of Five-Year Survival Following Presentation with Scleroderma: Development of a Simple Model Using Three Disease Factors at First Visit	
<i>C. Bryan, C. Knight, C. M. Black, and A. J. Silman</i>	2660
A Staged Approach to the Treatment of Wegener's Granulomatosis: Induction of Remission with Glucocorticoids and Daily Cyclophosphamide Switching to Methotrexate for Remission Maintenance	
<i>Carol A. Langford, Cheryl Talar-Williams, Karyl S. Barron, and Michael C. Sneller</i>	2666

Temporal Artery Biopsy: A Diagnostic Tool for Systemic Necrotizing Vasculitis <i>Thierry G��n��reau, Olivier Lortholary, Marie-Antoinette Pottier, Ulrique Michon-Pasturel, Thierry Ponge, Beno��t de Wazi��res, Eric Liozon, Laurent Pin��de, Eric Hachulla, Pascal Roblot, Jacques-Henri Barrier, Serge Herson, and Lo��c Guillevin, for the French Vasculitis Study Group</i>	2674
Patterns of Disease Activity in Systemic Lupus Erythematosus <i>Susan G. Barr, Abraham Zonana-Nacach, Laurence S. Magder, and Michelle Petri</i>	2682
Determinants of Enhanced Thromboxane Biosynthesis in Patients with Systemic Lupus Erythematosus <i>Domenico Ferro, Stefania Basili, Salvatore Roccaforte, Manuela Di Franco, Francesco Cipollone, Giovanni Ciabattini, and Giovanni Davi</i>	2689
Interaction Between Tumor Necrosis Factor Microsatellite Polymorphisms and the HLA-DRB1 Shared Epitope in Rheumatoid Arthritis: Influence on Disease Outcome <i>Derek L. Matvey, Andrew B. Hassell, Peter T. Dawes, William E. R. Ollier, and Ali Hajeer</i>	2698
Lack of <i>Borrelia burgdorferi</i> DNA in Synovial Samples From Patients with Antibiotic Treatment-Resistant Lyme Arthritis <i>David Carlson, Jesus Hernandez, Bradley J. Bloom, Jenifer Coburn, John M. Aversa, and Allen C. Steere</i> ...	2705
Health Insurance Characteristics and Health Care Evaluations Among Persons with Rheumatic Diseases in California <i>Patricia P. Katz, Edward H. Yelin, Amye Leong, and Dean R. Sonneborn</i>	2710
Subchondral Insufficiency Fracture of the Femoral Head: A Differential Diagnosis in Acute Onset of Coxarthrosis in the Elderly <i>Takuaki Yamamoto and Peter G. Bullough</i>	2719
Radiologic Vignette	
Tuberculosis of the Wrist <i>E. Michael Shanahan, Sinead D. Hanley, Robin G. Gibney, and Oliver FitzGerald</i>	2724
Concise Communications	
IgA-Class Anti- β_2 -Glycoprotein I in Women with Unexplained Recurrent Spontaneous Abortion <i>Hideto Yamada, Akito Tsutsumi, Kenji Ichikawa, Emi Hirayama Kato, Takao Koike, and Se��ichiro Fujimoto</i>	2727
Evidence for the Participation of Anti-Ribosomal P Antibodies in Lupus Nephritis <i>Morris Reichlin and Marianne Wolfson-Reichlin</i>	2728
Enhanced Interleukin-6 Messenger RNA Expression by Neuronal Cells in a Patient with Neuropsychiatric Systemic Lupus Erythematosus <i>Shunsei Hirohata and Kinya Hayakawa</i>	2729
Letters	
Is Chiari Malformation Associated with Increased Levels of Substance P and Clinical Symptoms in Persons with Fibromyalgia? <i>Laurence A. Bradley and Graciela S. Alarc��n</i>	2731
$\Delta 32$ CCR5 and Rheumatoid Arthritis: Comment on the Article by G��mez-Reino et al <i>Patrick J. W. Venables and Ali Hajeer</i>	2732
Reply <i>Juan J. G��mez-Reino and Jose L. Pablos</i>	2732
Roles of Nucleosomes in Systemic Lupus Erythematosus: Comment on the Article by Amoura et al <i>Stanley L. Lee</i>	2733
Reply <i>Zahir Amoura, Jean-Charles Piette, Jean-Fran��ois Bach, and Sophie Koutouzov</i>	2734
Laxity in Healthy and Osteoarthritic Knees: Comment on the Article by Sharma et al <i>Jean H. Gillies, Diane L. MacLeod, and Jeffrey K. H. Vallance</i>	2735
Reply <i>Leena Sharma, Congrong Lou, Dorothy D. Dunlop, Gretchen Kirwan-Mellis, David Weinrach, David T. Felson, and Thomas S. Buchanan</i>	2735
Clinical Images	
Hypertrophic Osteoarthropathy <i>Sebastian Schnarr, Michael Galanski, Klaus F. Gratz, and Henning Zeidler</i>	2736
Reviewers	2737
Contents, Volume 42, 1999	2741
Indexes	2768
ACR Announcements	13A